

PROTO TOOLS



**FOR ALL
INDUSTRIES**



**CATALOG
NO. 5629**

**PROTO means
PROfessional
TOOLS!**

*Your
Guide*

TO FINE HAND
SERVICE TOOLS
FOR



AUTOMOBILES
TRUCKS, BUSES



AIRPLANES
TRACTORS
FARM IMPLEMENTS



MACHINES
OTHER FACTORY
EQUIPMENT
POWER PLANTS



RAILROADS
MINES
REFINERIES



OIL FIELDS
CONSTRUCTION
UTILITIES



SHIPS
AIR CONDITIONING
REFRIGERATION



PLUMBING
APPLIANCES
OFFICE EQUIPMENT



ELECTRONICS
HOBBIES
HOUSEHOLDS

CATALOG NO. 5629

with a Complete Listing of



Forging Ahead Through Leadership, Quality, Service and Understanding

WHERE TO BUY PROTO TOOLS — SEE PAGE 80

GUARANTEE

PROTO tools are guaranteed to perform the work for which they are designed, and to last as long as is consistent with ordinary wear. Any tool found defective in workmanship or material, and returned to the Factory with transportation charges prepaid, will be replaced, repaired or credited at current prices (as deemed best by us), provided it has been used for the purpose for which the tool was designed. • Power and impact sockets are designed for power equipment, but standard thin-wall sockets are not intended for such use. Special tools not listed in our catalog or price list do not carry the regular guarantee, because they have been manufactured to the original purchaser's specifications. Also, tools that have been ground or altered in any other manner from their original design are not covered by the guarantee.

SPECIAL TOOLS

In addition to the standard tools listed in this catalog, a great many types of special tools are made for manufacturers and other tool users. Inquiries are welcomed on tools of your own specifications, required to solve production or maintenance problems. To obtain more information on standard tools, special tools or any tool problem, see your PROTO tool distributor or write to our Contract Department, giving your name, position, company and address. When writing, ask for Special Tools Booklet No. 5328.

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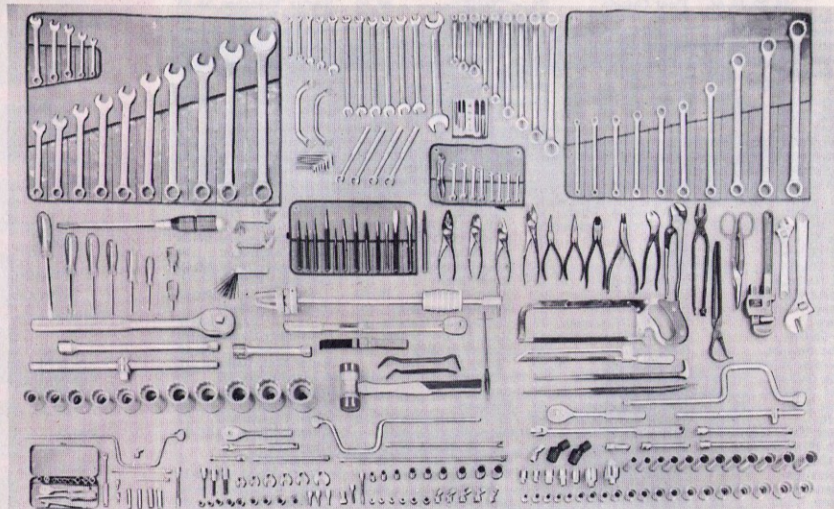
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PROTO means Professional Tools

NO. 9901 "MAINTENANCE MASTER"



PROTO custom styled the master sets on Pages 2-6 with users in mind. No. 9901 is a very complete super set for all types of factory, utility, railroad, power plant, refinery and other industrial maintenance.

Contents of No. 9901 Set: 6 open end and 6 tappet wrenches; 10 box wrenches in kit; 15 combination box and open end wrenches in kit; 8 midjet open end wrenches and midjet plier in kit; 9 offset box, 2 obstruction box, 4 flare nut, 1 pipe and 2 adjustable wrenches; 2 power sockets in $\frac{1}{2}$ "

drive; 24 sockets and attachments in $\frac{1}{4}$ " drive, and box; 54 sockets, crowfoot wrenches and attachments in $\frac{3}{8}$ " drive; 44 sockets and attachments in $\frac{1}{2}$ " drive; 16 sockets and attachments in $\frac{3}{4}$ " drive; 12 pliers; snip; 9 screwdrivers; slide-hammer puller; 2 brake tools; muffler tool; valve

Perfect also for mechanics who repair automobiles, trucks, buses, aircraft, tractors, farm implements, marine engines, construction equipment, etc. Includes the 266 items listed below. Weight, 121 Lbs.

guide cleaner; carbon scraper; set of 7 Allen-type wrenches in kit; 3 gauge sets; 2 hacksaws; 2 bars; Torquer; Nupla hammer holder and 2 Nuplaflex plastic tips; 7 punches and 5 chisels in kit, and 5 extractors. The following table tells where every item is listed in this catalog.

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NO. 9902 AND NO. 9903 "MAINTENANCE MASTERS"



9997

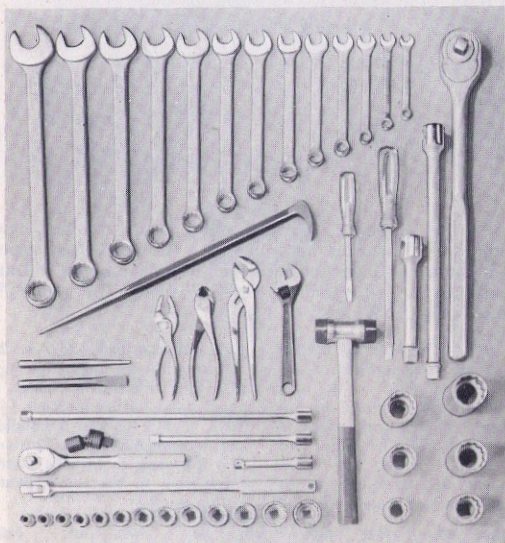
Set No. 9902 includes all of the 266 items in Set No. 9901, listed on Page 2, and Master Tool Chest No. 9997, described on Page 77. Weight, 186 Lbs.

Set No. 9903 includes all items in Set No. 9901, listed on Page 2, and a No. 9968A "Toolmobile" Mobile Cabinet, described on Page 76. Weight, 254 Lbs.



9968A

NO. 9904 "DIESEL MASTER" SET

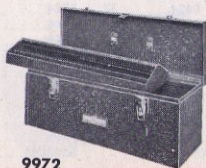


For repair of diesel engines in locomotives, power plants, factories, trucks, etc. Includes 53 items. Weight, 42 Lbs.

Contents of No. 9904 Set: 13 combination box and open end wrenches; adjustable wrench; 19 sockets and attachments in $\frac{1}{2}$ " drive; 9 sockets and attachments in $\frac{3}{4}$ " drive; 3 pliers; 2 screwdrivers; rolling head bar; Nupla hammer holder and 2 Nuplaflax plastic tips; punch, and chisel. The following table tells on which page of this catalog you will find the listing for each item in the set.

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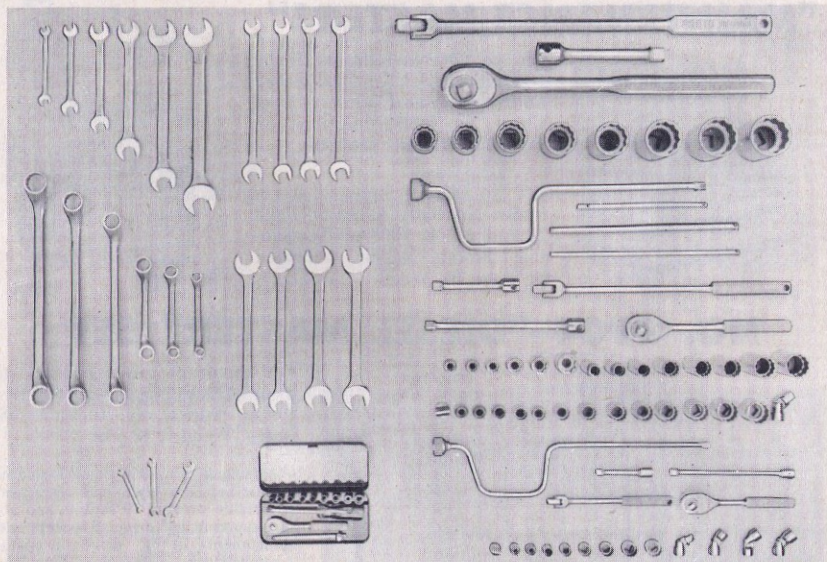


9972

Set No. 9905 includes all 53 items in Set No. 9904, listed above, and Tool Box No. 9972, shown at the left and

described on Page 79. The box is handy for storing the tools and taking them to a job. Weight, 53 Lbs.

NO. 9906 MASTER WRENCH SET



A very complete set of wrenches—originally designed to meet military requirements. The 102 items in the set include open end wrenches, tappet wrenches, midget open end obstruction wrenches, both

short and long offset box wrenches, and socket wrenches with the most used types of socket handles and attachments in four square drive sizes— $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ ". Weight, 50 Lbs.

Contents of No. 9906 Set: 6 open end wrenches with openings from $\frac{5}{16}$ "x $\frac{3}{8}$ " to $\frac{15}{16}$ "x1"; 2 each of 4 tappet wrenches with openings from $\frac{1}{2}$ "x $\frac{3}{16}$ " to $\frac{13}{16}$ "x $\frac{1}{4}$ "; 3 midget open end obstruction wrenches with openings from $\frac{1}{32}$ "x $\frac{1}{4}$ " to $\frac{11}{32}$ "x $\frac{3}{8}$ "; 3 short offset box wrenches with openings

from $\frac{3}{8}$ "x $\frac{1}{16}$ " to $\frac{5}{8}$ "x $\frac{1}{16}$ "; 3 long offset box wrenches with openings from $\frac{3}{4}$ "x $\frac{25}{32}$ " to $\frac{15}{16}$ "x1"; $\frac{1}{4}$ " drive socket wrench set, including 9 sockets with openings from $\frac{1}{32}$ " to $\frac{1}{16}$ ", 3 handles and steel box; 11 sockets with openings from $\frac{1}{16}$ " to $\frac{3}{4}$ ", 1 screwdriver socket, 3 handles and 3

attachments in $\frac{3}{8}$ " drive; 27 sockets with openings from $\frac{3}{8}$ " to $1\frac{1}{8}$ ", 1 screwdriver socket, 5 handles and 3 attachments in $\frac{1}{2}$ " drive, and 8 sockets, 3 handles and 1 attachment in $\frac{3}{4}$ " drive. The following table tells where every item in the set is listed in this catalog:

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3030.....	10	8162.....	17	5224.....	34	5341.....	37	5418.....	37	5432.....	37	5540.....	41
3035.....	10	8183.....	17	5244.....	34	5343.....	37	5418S.....	37	5434.....	37	5544.....	41
3040.....	10	8184.....	17	5275.....	34	5345.....	37	5419.....	37	5446.....	37	5546.....	41
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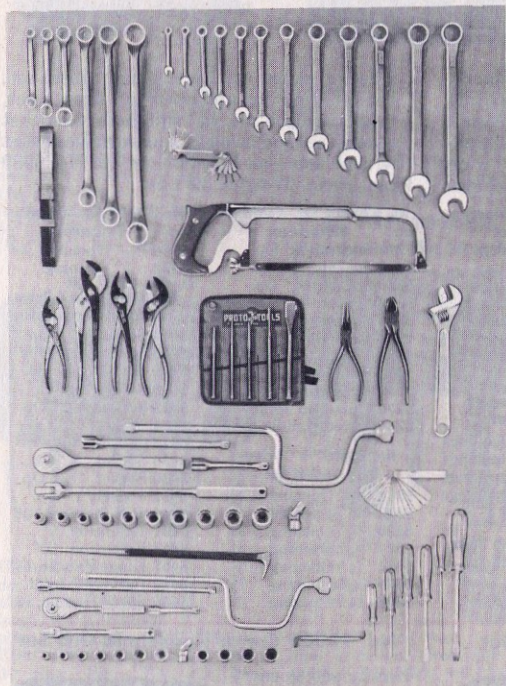
9997

NO. 9907 MASTER WRENCH SET

Set No. 9907 includes all of the 102 items in Set No. 9906, listed on Page 4, and Master Tool Chest No. 9997, shown at the left and described on

Page 77. This chest has two large drawers, four medium drawers, a three-compartment top section, and a removable tote tray. Weight, 115 Lbs.

NO. 9908 MECHANICS STANDARD SET

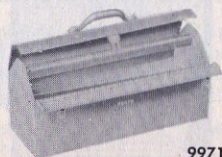


A popular basic set with the most-needed tools for automotive and many other types of mechanics. Includes 76 highly useful items. Weight, 29 Lbs.

Contents of No. 9908 Set: 12 combination box and open end wrenches with openings from $\frac{1}{4}$ " to $1\frac{1}{16}$ "; 3 short and 3 long offset box wrenches with openings from $\frac{3}{8}$ " x $\frac{1}{16}$ " to $1\frac{1}{16}$ " x 1"; 10" adjustable wrench; 11 socket wrenches with openings from $\frac{3}{8}$ " to $1\frac{1}{16}$ ", 3 handles and 3 attachments in $\frac{3}{8}$ " drive; 10 socket wrenches with openings from $\frac{1}{16}$ " to 1", 3 handles and 3 attachments in $\frac{1}{2}$ " drive; 6 plastic-handle screwdrivers; offset screwdriver; diagonal cutting plier; needle nose plier; wrench plier; 3 slip joint pliers; carbon scraper; 2 gauge sets; hacksaw; rolling head bar, and set of 4 punches and 1 chisel in a kit. The following table tells where every item is listed in this catalog:

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1224.....14	5400AA (16	000AA.....62
1226.....14	Items).....40	000K.....62
1228.....14	9604.....46	2337.....64
1230.....14	9606.....46	352.....66
8160.....17	9622.....46	2126.....66
8161.....17	9626.....46	3 (6
8162.....17		Items).....73

NO. 9909 MECHANICS STANDARD SET

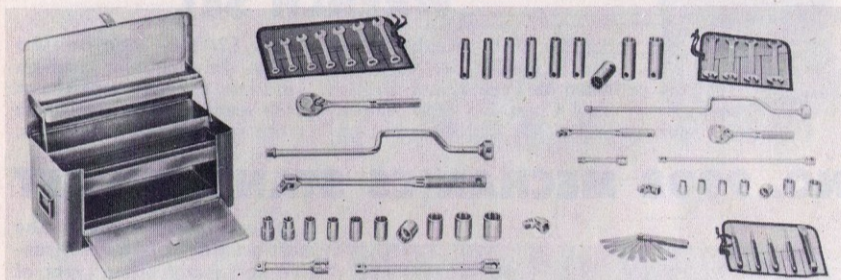


9971

Set No. 9909 includes all of the 76 items in Set No. 9908, listed above, and Tool Box

No. 9971, shown at the left and described on Page 79. Weight, 38 Lbs.

NO. 9989C MASTER TOOL SET



An ideal set for industrial maintenance, providing needed tools for trouble-shooting and reducing time in breakdowns. Also a fine basic set for repair of cars, trucks, tractors, refrigerators, etc. Gives very wide coverage for a low investment. Includes

a feeler gauge set, punch and chisel set, combination box and open end wrench set, tappet wrench set, $\frac{3}{8}$ " square drive socket wrench set and two $\frac{1}{2}$ " square drive socket wrench sets—all listed below—in No. 9989 tool chest. Weight, 39 Lbs.

No. 000A Short Feeler Gauge Set

NO.	DESCRIPTION
003	Gauge, .003" Thick
004	Gauge, .004" Thick
005	Gauge, .005" Thick
006	Gauge, .006" Thick
008	Gauge, .008" Thick
010	Gauge, .010" Thick
012	Gauge, .012" Thick
015	Gauge, .015" Thick
018	Gauge, .018" Thick
000C	Gauge Holder

No. 3 Punch and Chisel Set

41	$\frac{3}{8}$ " Center Punch
47	$\frac{1}{16}$ "x $\frac{1}{8}$ " Rivet Punch
47	$\frac{3}{8}$ "x $\frac{1}{16}$ " Rivet Punch
50	$\frac{1}{16}$ " Starting Punch
86A	$\frac{1}{2}$ " Cold Chisel
2411	Vinyl Kit

No. 1200H Combination Wrench Set

1212	$\frac{3}{8}$ " Openings
1214	$\frac{1}{16}$ " Openings
1216	$\frac{1}{8}$ " Openings
1218	$\frac{9}{16}$ " Openings
1220	$\frac{3}{8}$ " Openings
1222	$\frac{1}{16}$ " Openings
1224	$\frac{3}{4}$ " Openings
2404	Vinyl Kit

No. 3400G Tappet Wrench Set

3425	$\frac{1}{16}$ "x $\frac{1}{2}$ " Openings
3426	$\frac{1}{16}$ "x $\frac{9}{16}$ " Openings
3426	$\frac{1}{2}$ "x $\frac{9}{16}$ " Openings
3430	$\frac{9}{16}$ "x $\frac{3}{8}$ " Openings
2412	Vinyl Kit

No. 5200AA $\frac{3}{8}$ " Drive Socket Wrench Set

5212	Socket, $\frac{3}{8}$ " Op.
5214	Socket, $\frac{1}{16}$ " Op.

No. 5200AA Set—Contd.

NO.	DESCRIPTION
5216	Socket, $\frac{1}{2}$ " Op.
5218	Socket, $\frac{9}{16}$ " Op.
5220	Socket, $\frac{5}{8}$ " Op.
5222	Socket, $1\frac{1}{16}$ " Op.
5224	Socket, $\frac{3}{4}$ " Op.
5249	Rev. Ratchet, 7"
5260	Extension, $3\frac{1}{2}$ "
5262	Extension, 12"
5265	Hinge Handle, 7 $\frac{3}{8}$ "
5270	Universal Joint
5280	Speed Handle, 16 $\frac{7}{8}$ "

No. 5300B $\frac{1}{2}$ " Drive Deep Socket Set

5316	$\frac{1}{2}$ " Opening
5318	$\frac{9}{16}$ " Opening
5320	$\frac{5}{8}$ " Opening
5322	$\frac{1}{16}$ " Opening
5324	$\frac{3}{4}$ " Opening
5326	$\frac{1}{16}$ " Opening
5328	$\frac{7}{8}$ " Opening

No. 5300B Set—Contd.

NO.	DESCRIPTION
5330	$\frac{1}{16}$ " Opening
5332	1" Opening

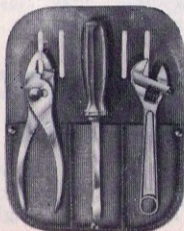
No. 5400AA $\frac{1}{2}$ " Drive Socket Wrench Set

5414	Socket, $\frac{1}{16}$ " Op.
5416	Socket, $\frac{1}{8}$ " Op.
5418	Socket, $\frac{1}{16}$ " Op.
5420	Socket, $\frac{3}{8}$ " Op.
5422	Socket, $\frac{1}{16}$ " Op.
5424	Socket, $\frac{3}{4}$ " Op.
5426	Socket, $\frac{1}{16}$ " Op.
5428	Socket, $\frac{7}{8}$ " Op.
5430	Socket, $\frac{1}{16}$ " Op.
5432	Socket, 1" Op.
5449	Rev. Ratchet, 10"
5461	Extension, 5"
5463	Extension, 10"
5467	Hinge Handle, 15"
5470	Universal Joint
5480	Speed Handle, 18"

No. 9900C Household Gift Set

Has handiest tools for most home and many professional jobs. In belt-type kit. Contents:

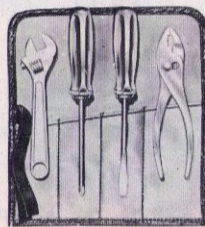
NO.	DESCRIPTION
276	$\frac{6}{16}$ " Slip Jt. Plier
706S	6" Adjust. Wrench
9804	Screwdriver, Plastic Hdl., $\frac{1}{4}$ " Bit
2450	Leather Kit, 7"x9"
	Weight, 1.28 Lbs.



No. 9900D Car or Household Gift Set

Handy set to carry in car or keep in kitchen. Contents:

NO.	DESCRIPTION
276	$\frac{6}{16}$ " Slip Jt. Plier
706	6" Adjust. Wrench
9604	Screwdriver, Plastic Hdl., $\frac{1}{4}$ " Bit
9684	Screwdriver, Phillips No. 2 Bit
2408	Kit, 7 $\frac{1}{16}$ "x9 $\frac{1}{4}$ "
	Weight, 1.24 Lbs.



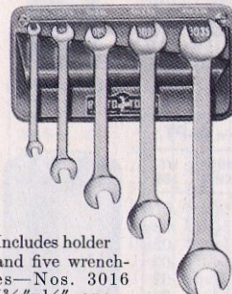
ADDA-UNITS WITH PLASTIC HOLDERS

Small, low-cost units of very useful tools for both home and professional workshops. Streamlined holders of tough styron plastic are custom molded to hold tools snug-

ly, safely and orderly. Marked opening sizes simplify selection of tools, and numbers speed their return to proper place. Holes permit secure mounting of holders

on plain or perforated back-bench panels. Color scheme is bright red and gold.

No. 9931—Open End Wrenches



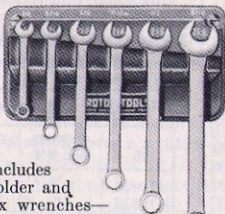
Includes holder and five wrenches—Nos. 3016 ($\frac{3}{16}$ "x $\frac{1}{4}$ " openings), 3020 ($\frac{3}{16}$ "x $\frac{3}{8}$ " openings), 3025 ($\frac{7}{16}$ "x $\frac{1}{2}$ " openings), 3030 ($\frac{3}{16}$ "x $\frac{5}{8}$ " openings) and 3035 ($\frac{1}{16}$ "x $\frac{3}{4}$ " openings). Wt., .90 Lb.

No. 9953—Pliers



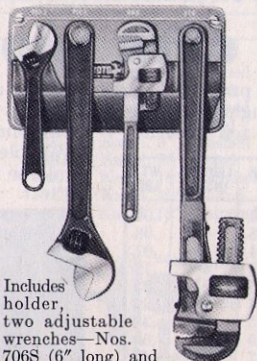
Includes holder, No. 202 thin nose plier ($6\frac{1}{2}$ " long), No. 230 midjet plier ($4\frac{1}{2}$ " long), No. 234 "Multi-Plier" ($7\frac{3}{4}$ " long) and No. 241 utility plier ($9\frac{1}{2}$ " long). Wt., 2.2 Lbs.

No. 9937—Combination Box and Open End Wrenches



Includes holder and six wrenches—Nos. 1208 ($\frac{1}{4}$ " openings), 1210 ($\frac{5}{16}$ " openings), 1212 ($\frac{3}{8}$ " openings), 1214 ($\frac{7}{16}$ " openings), 1216 ($\frac{1}{2}$ " openings) and 1218 ($\frac{3}{16}$ " openings). Wt., .76 Lb.

No. 9942—Adjustable Wrenches and Pipe Wrenches



Includes holder, two adjustable wrenches—Nos. 706S ($6\frac{1}{2}$ " long) and 710S ($10\frac{1}{2}$ " long), and two pipe wrenches—Nos. 808 ($8\frac{1}{2}$ " long) and 814 ($14\frac{1}{2}$ " long). Wt., 4.0 Lbs.



No. 9950— $\frac{1}{2}$ " Drive Socket Wrench Set

Includes holder, No. 5467 hinge handle ($15\frac{1}{2}$ " long), and ten 12-point socket wrenches—Nos. 5414 ($\frac{1}{16}$ " opening), 5416 ($\frac{1}{8}$ " opening), 5418 ($\frac{3}{16}$ " opening), 5420 ($\frac{1}{4}$ " opening), 5422 ($\frac{5}{16}$ " opening), 5424 ($\frac{3}{8}$ " opening), 5426 ($\frac{7}{16}$ " opening), 5428 ($\frac{1}{2}$ " opening), 5430 ($\frac{5}{8}$ " opening) and 5432 ($1\frac{1}{8}$ " opening). Wt., 4.1 Lbs.



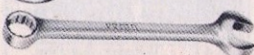
No. 9930A Merchandiser

Includes 2'x2' blue display panel, poster and two each of all five ADDA-UNITS. Wt., 32 Lbs.

WHITWORTH WRENCHES AND SOCKETS



Most-used sizes for the repair of British cars and motorcycles.



Comb. Box and Open End Wrenches

NO.	WHITWORTH SIZE	HEAD THKNS. BOX END	HEAD THKNS. OPEN END	TOTAL LGTH.	WT. LBS.
1206W	$\frac{3}{16}$	.344"	.234"	$5\frac{1}{4}$ "	.13
1208W	$\frac{1}{4}$	.359"	.265"	6"	.18
1210W	$\frac{5}{16}$	.437"	.328"	$7\frac{1}{2}$ "	.25
1212W	$\frac{3}{8}$	.468"	.344"	$8\frac{1}{4}$ "	.32

$\frac{3}{8}$ " Drive Sockets—12-Pt.

NO.	WHITWORTH SIZE	TOTAL LGTH.	WT. LBS.
5206W	$\frac{3}{16}$	1"	.04
5208W	$\frac{1}{4}$	1"	.06
5210W	$\frac{5}{16}$	1"	.07
5212W	$\frac{3}{8}$	$1\frac{1}{8}$ "	.11

METRIC-SIZE SOCKET WRENCHES IN 1/4" AND 1/2" SQUARE DRIVES

1/2" SQ. DR. SOCKETS — 12-PT.

NO.	OPENING SIZE, MM.	LENGTH, MM.	LENGTH, INCHES	WT., LBS.
5412M	12	35.7	1 13/32	.10
5413M	13	35.7	1 13/32	.11
5414M	14	35.7	1 13/32	.10
5415M	15	35.7	1 13/32	.11
5416M	16	35.7	1 13/32	.16
5417M	17	35.7	1 13/32	.13
5418M	18	35.7	1 13/32	.17
5419M	19	35.7	1 13/32	.16
5420M	20	35.7	1 13/32	.18
5421M	21	35.7	1 13/32	.21
5422M	22	38.9	1 17/32	.28
5423M	23	38.9	1 17/32	.32
5424M	24	38.9	1 17/32	.37
5425M	25	38.9	1 17/32	.30
5426M	26	38.9	1 17/32	.32
5427M	27	38.9	1 17/32	.31
5428M	28	45.2	1 25/32	.49
5429M	29	45.2	1 25/32	.46
5430M	30	45.2	1 25/32	.47
5432M	32	45.2	1 25/32	.49

Metric-size sockets and open end wrenches are for cars, machinery, equipment, etc., made in France, Italy, Germany and most other European countries except England, which generally use Whitworth standards. The thin-wall sockets are made from fine alloy steel.



4704M-4712M

1/4" SQ. DR. SOCKETS — 6-PT.

NO.	OPENING SIZE, MM.	LENGTH, MM.	LENGTH, INCHES	WT., LBS.
4704M	4	22.2	7/8	.01
4705M	5	22.2	7/8	.02
4706M	6	22.2	7/8	.02
4707M	7	22.2	7/8	.02
4708M	8	22.2	7/8	.02
4709M	9	22.2	7/8	.03
4710M	10	22.2	7/8	.03
4711M	11	22.2	7/8	.04
4712M	12	22.2	7/8	.05



5412M-5432M

METRIC-SIZE OPEN END WRENCHES

Forged from fine alloy steel and properly heat treated for extra strength and toughness. Openings are accurately milled. The ten wrenches

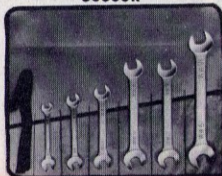
provide all openings from 6 to 24 millimeters by 1-millimeter steps, plus a 26-millimeter opening. Two sets are available—one with all ten wrenches, and one with six wrenches.

NO.	NOM. OPEN. SIZES, MM.	HD. THICK- NESS, MM.	LENGTH, MM.	LENGTH, INCHES	WT., LBS.
30607	6x7	5.2	114.3	4 1/2	.04
30809	8x9	6.0	123.8	4 7/8	.06
31011	10x11	6.3	133.4	5 1/4	.07
31213	12x13	6.7	142.9	5 5/8	.12
31415	14x15	8.3	171.5	6 3/4	.23
31617	16x17	8.3	206.4	8 1/4	.22
31819	18x19	9.1	217.5	8 9/16	.38
32022	20x22	9.9	254.0	10	.60
32123	21x23	9.9	266.7	10 1/2	.56
32426	24x26	10.7	282.6	11 1/8	.78

Set No. 30000R Contents

NO.	OPENING SIZES, MM.	LGTH., MM.
30809	8x9	123.8
31011	10x11	133.4
31213	12x13	142.9
31415	14x15	171.5
31617	16x17	206.4
31819	18x19	217.5
2407 Vinyl Kit		
Weight, 1.20 Lbs.		

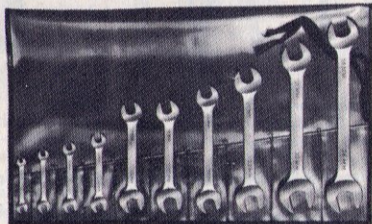
30000R



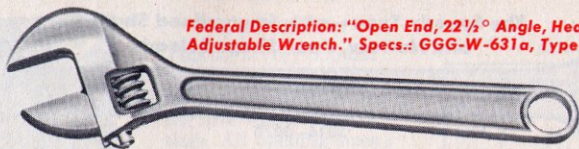
30000A

Set No. 30000A Contents

NO.	OPENING SIZES, MM.	LGTH., MM.	NO.	OPENING SIZES, MM.	LGTH., MM.
30607	6x7	114.3	31819	18x19	217.5
30809	8x9	123.8	32022	20x22	254.0
31011	10x11	133.4	32123	21x23	266.7
31213	12x13	142.9	32426	24x26	282.6
31415	14x15	171.5	2414 Vinyl Kit		
31617	16x17	206.4	Weight, 3.4 Lbs.		



ADJUSTABLE WRENCHES — 22½° ANGLE



Federal Description: "Open End, 22½° Angle, Heavy-Duty Adjustable Wrench." **Specs.:** GGG-W-631a, Type I.

NO.	NOM. LENGTH	MAX. OPNG.	FINISH	WT. LBS.
704	4"	1½"	Full	.10
704S	4"	1½"	Semi	.10
706	6"	3½"	Full	.23
706S	6"	3½"	Semi	.22
708	8"	5½"	Full	.54
708S	8"	5½"	Semi	.54
710	10"	11½"	Full	.85
710S	10"	11½"	Semi	.85
712	12"	15½"	Full	1.56
712S	12"	15½"	Semi	1.56
716	16"	17½"	Full	3.7
716S	16"	17½"	Semi	3.7
720	20"	21½"	Full	6.3
720S	20"	21½"	Semi	6.3

Forged from fine alloy steel, these wrenches are strong—though thin and light to permit faster work.

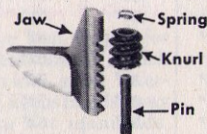
The seven full-finish wrenches are highly polished and then chrome plated to prevent rust and enhance appearance. The seven semi-finish wrenches have polished heads.

Absence of a corner lip on the movable jaw (in most sizes) allows a square nut to fit flat against the inside jaw surface, resulting in greater strength, better adaptability to different size nuts, and elimination of "knuckle busting" due to slippage. Every handle uses a husky I-beam construction and has a hole for hanging up the wrench.

Big cost savers are the 16" sizes, which do the work of usual 15" and 18" wrenches, and the 20" sizes, which replace usual 18" and 24" wrenches.

Adjustable Wrench Spare Parts

NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
704J	Jaw, 4", Polished	720JP	Jaw, 20", Plated	712KP	Knurl, 12", Plated
704JP	Jaw, 4", Plated	704K	Knurl, 4", Polished	716K	Knurl, 16", Polished
706J	Jaw, 6", Polished	704KP	Knurl, 4", Plated	716KP	Knurl, 16", Plated
706JP	Jaw, 6", Plated	706K	Knurl, 6", Polished	720K	Knurl, 20", Polished
708J	Jaw, 8", Polished	706KP	Knurl, 6", Plated	720KP	Knurl, 20", Plated
708JP	Jaw, 8", Plated	708K	Knurl, 8", Polished	704N	Pin, 4", Polished
710J	Jaw, 10", Polished	708KP	Knurl, 8", Plated	706N	Pin, 6", Polished
710JP	Jaw, 10", Plated	710K	Knurl, 10", Polished	708N	Pin, 8", Polished
712J	Jaw, 12", Polished	710KP	Knurl, 10", Plated	710N	Pin, 10", Polished
712JP	Jaw, 12", Plated	712K	Knurl, 12", Polished	712N	Pin, 12", Polished
716J	Jaw, 16", Polished			716N	Pin, 16", Polished
716JP	Jaw, 16", Plated			720N	Pin, 20", Polished
720J	Jaw, 20", Polished			704R	Spring, 4"
				706R	Spring, 6"
				708R	Spring, 8"
				710R	Spring, 10"
				712R	Spring, 12"
				716R	Spring, 16"
				720R	Spring, 20"



NOTE: Polished jaws and knurls match semi-finish and full-polished wrenches. Pins and springs match all semi-finish, full-polished and plated wrenches.



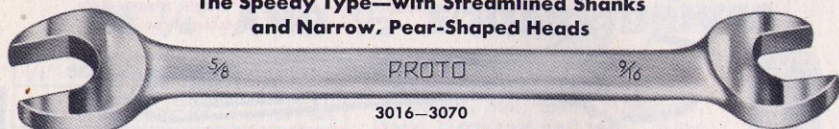
No. 700A Adjustable Wrench Spare Parts Kit

NO.	QUAN.	NO.	QUAN.	Contents	NO.	QUAN.	NO.	QUAN.	
					NO.	QUAN.			
704J	2	712J	1		716K	1	720N	1	
704JP	2	712JP	1		720K	1	704R	3	
706J	3	716J	1	708K	2	704N	3	706R	4
706JP	3	720J	1	708KP	2	706N	4	708R	4
708J	3	704K	1	710K	1	708N	5	710R	2
708JP	3	704KP	1	710KP	1	710N	2	712R	2
710J	1	706K	1	712K	1	712N	1	716R	2
710JP	1	706KP	1	712KP	1	716N	1	720R	2

Total of 72 Parts. Weight, 4.2 Lbs.

OPEN END WRENCHES—15° ANGLE

The Speedy Type—with Streamlined Shanks
and Narrow, Pear-Shaped Heads



Federal Description: "Engineer's Wrench, Double Head,
Open End, 15°." Specs.: GGG-W-636a, Type IV.

Slim, scientifically tapered jaws reduce overall width of the pear-shaped heads to permit work in close places but are extra strong at points of greatest strain. Jaws have minimum overhang to speed seating on nut, increase strength and prevent jaw

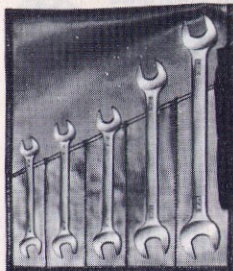
spreading. Opening bases have a radius determined for high strength. Heads have the correct thickness. Small radii where head and shank join increase useability in tight spots. Heads project from shank at 15° angle, permitting a turning arc of only 30°. Streamlined shanks are easy on hands, speed work and enhance appearance. Great strength and toughness—giving extra life—result from use of PROTOLOY® special alloy steels, scientific grain-flow forging, and correct heat treatment. Chrome plating gives rust-proof, lustrous-appearing wrenches.

® Registered U.S. Pat. Off.



NO.	NOMINAL OPENING SIZES(A)	SMALL OPENING END			LARGE OPENING END			TOTAL LENGTH (L)	WT. LBS.
		OPENING DEPTH(B)	HEAD WIDTH(C)	HEAD THKNS.(D)	OPENING DEPTH(B)	HEAD WIDTH(C)	HEAD THKNS.(D)		
3016	3/16" x 1/4"	.19"	.47"	.17"	.19"	.53"	.17"	4 1/8"	.02
3018	1/4" x 5/16"	.19"	.56"	.17"	.25"	.69"	.17"	4 1/2"	.04
3020	5/16" x 3/8"	.25"	.69"	.20"	.31"	.81"	.20"	4 7/8"	.05
3021	3/8" x 7/16"	.31"	.94"	.22"	.37"	.81"	.22"	5 1/4"	.05
3025	1/2" x 1/2"	.31"	.94"	.25"	.37"	1.06"	.25"	5 3/8"	.10
3026	1/2" x 9/16"	.41"	1.06"	.27"	.44"	1.22"	.27"	6"	.14
3027	1/2" x 1 1/32"	.44"	1.06"	.27"	.50"	1.22"	.27"	6 3/8"	.15
3030	9/16" x 5/8"	.44"	1.19"	.30"	.50"	1.31"	.30"	6 3/4"	.23
3031	5/8" x 3/4"	.50"	1.31"	.34"	.62"	1.63"	.34"	7 3/16"	.27
3033	1 1/32" x 1 1/16"	.56"	1.31"	.33"	.62"	1.44"	.33"	7 5/8"	.26
3034	5/8" x 1 1/16"	.56"	1.31"	.33"	.62"	1.44"	.33"	8 1/8"	.28
3035	1 1/16" x 3/4"	.56"	1.44"	.34"	.72"	1.63"	.34"	8 9/16"	.32
3036	1 1/16" x 7/8"	.66"	1.44"	.34"	.72"	1.81"	.34"	9"	.42
3037	1 1/16" x 25/32"	.56"	1.44"	.34"	.62"	1.63"	.34"	9 1/2"	.42
3039	3/4" x 7/8"	.66"	1.63"	.38"	.72"	1.81"	.38"	10"	.45
3040	13/16" x 7/8"	.75"	1.66"	.38"	.75"	1.81"	.38"	10 1/2"	.51
3041	7/8" x 1 1/16"	.78"	2.00"	.44"	.94"	2.19"	.44"	11 1/8"	.70
3045	15/16" x 1"	.72"	2.00"	.44"	.78"	2.19"	.44"	12"	.81
3047	15/16" x 1 1/16"	.81"	2.00"	.44"	.94"	2.19"	.44"	13"	1.00
3050	1 1/16" x 1 1/8"	.87"	2.13"	.50"	1.00"	2.38"	.50"	13 7/8"	1.20
3051	1 1/16" x 1 1/4"	.87"	2.25"	.50"	1.12"	2.65"	.50"	14 7/8"	1.42
3055	1 1/4" x 1 3/16"	1.12"	2.56"	.56"	1.19"	2.88"	.56"	16 1/4"	1.76
3060	1 3/8" x 1 7/16"	1.12"	2.75"	.56"	1.25"	3.00"	.56"	17 3/4"	2.3
3061	1 1/4" x 1 7/16"	1.12"	2.56"	.56"	1.25"	2.88"	.56"	17 3/4"	2.3
3065	1 7/16" x 1 5/8"	1.25"	3.00"	.64"	1.62"	3.31"	.64"	19 1/2"	3.0
3070	1 1/2" x 1 5/8"	1.25"	3.00"	.64"	1.62"	3.31"	.64"	19 1/2"	3.1

OPEN END WRENCH SETS

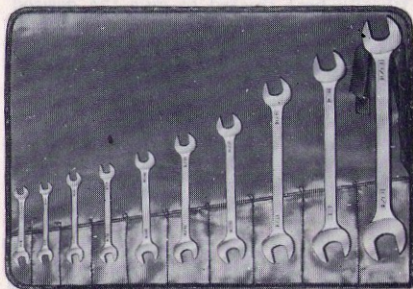


No. 3000N Set

This set is very popular because it includes five open end wrenches in the most-used range of sizes. All opening sizes are provided from $\frac{3}{8}$ " to $\frac{1}{2}$ " by $\frac{1}{16}$ " steps. It is a fine basic set to which more sizes can be added as they are needed.

Contents

NO.	OPENING SIZES	LENGTH
3021	$\frac{3}{8}$ " x $\frac{7}{16}$ "	5 $\frac{1}{4}$ "
3026	$\frac{1}{2}$ " x $\frac{9}{16}$ "	6"
3030	$\frac{9}{16}$ " x $\frac{5}{8}$ "	6 $\frac{3}{4}$ "
3035	$\frac{11}{16}$ " x $\frac{3}{4}$ "	8 $\frac{9}{16}$ "
3040	$\frac{13}{16}$ " x $\frac{7}{8}$ "	10 $\frac{1}{2}$ "
2409	Vinyl Kit, 9 $\frac{1}{2}$ " x 11 $\frac{3}{4}$ "	
Weight, 1.72 Lbs.		



No. 3000H Set

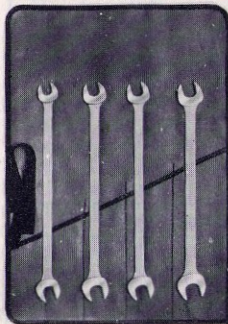
An expanded set of ten open end wrenches for professional use. All opening sizes are provided from $\frac{1}{4}$ " to $\frac{1}{2}$ " by $\frac{1}{16}$ " steps.

Contents

NO.	OPENING SIZES	LENGTH
3018	$\frac{1}{4}$ " x $\frac{5}{16}$ "	4 $\frac{1}{2}$ "
3020	$\frac{5}{16}$ " x $\frac{3}{8}$ "	4 $\frac{7}{8}$ "
3025	$\frac{3}{16}$ " x $\frac{1}{2}$ "	5 $\frac{5}{8}$ "
3026	$\frac{1}{2}$ " x $\frac{9}{16}$ "	6"
3030	$\frac{9}{16}$ " x $\frac{5}{8}$ "	6 $\frac{3}{4}$ "
3031	$\frac{5}{8}$ " x $\frac{3}{4}$ "	7 $\frac{7}{16}$ "
3035	$\frac{11}{16}$ " x $\frac{3}{4}$ "	8 $\frac{9}{16}$ "
3040	$\frac{13}{16}$ " x $\frac{7}{8}$ "	10 $\frac{1}{2}$ "
3045	$\frac{15}{16}$ " x 1"	12"
3050	$\frac{11}{16}$ " x 1 $\frac{1}{8}$ "	13 $\frac{7}{8}$ "
2406	Vinyl Kit, 21 $\frac{1}{4}$ " x 15 $\frac{1}{2}$ "	
Weight, 4.6 Lbs.		

TAPPET WRENCHES—OPEN END —15°-ANGLE HEADS

Federal Description: "Tappet Wrench, Double Spearhead, Open End, 15°." Specs.: GGG-W-636a, Type X, Class 1.



Have best length for general use, 10", which provides good leverage, keeps hands away from hot manifolds, and still permits use in close quarters. Heads give good service without spreading. Wrench openings cover tappets, screws or lock nuts without excessive overhang, making them easier and faster to use. They are forged from fine alloy steel.

NO.	NOMINAL OPENING SIZES	HEAD THICKNESS	TOTAL LENGTH	WT. LBS.
3425	$\frac{7}{16}$ " x $\frac{1}{2}$ "	.188"	10"	.15
3426	$\frac{1}{2}$ " x $\frac{9}{16}$ "	.188"	10"	.16
3430	$\frac{9}{16}$ " x $\frac{5}{8}$ "	.188"	10"	.24
3435	$\frac{11}{16}$ " x $\frac{3}{4}$ "	.218"	10"	.27
3440	$\frac{13}{16}$ " x $\frac{7}{8}$ "	.218"	10"	.35

No. 3400G Tappet Wrench Set

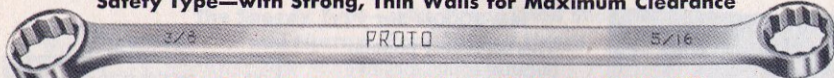
Contents

NO.	QUANTITY	OPENING SIZES
3425	1	$\frac{7}{16}$ " x $\frac{1}{2}$ "
3426	2	$\frac{1}{2}$ " x $\frac{9}{16}$ "
3430	1	$\frac{9}{16}$ " x $\frac{5}{8}$ "
2412	Vinyl Kit, $6\frac{3}{4}$ " x $11\frac{1}{2}$ "	
Weight, 1.02 Lbs.		

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

12-POINT BOX WRENCHES

Safety Type—with Strong, Thin Walls for Maximum Clearance



1120-
1164

Federal Description: "Box Wrench, Double Head, 12-Point, 15° Offset Each End." **Specs.:** GGG-W-636a, Type I, Class 1, Style A (Nos. 1120L-1131L and 1133-1164) and Style B (Nos. 1120-1131).

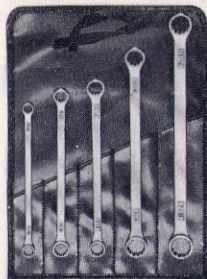
Thin but very strong box walls and resulting compact heads permit use in close

quarters. Walls are thinner at the wrench tip than at the shank end of the box where greater strength is needed. Box openings are beveled for easy placement over a nut. Streamlined shanks provide comfortable grip, reduce the weight and allow long use without fatigue. These box wrenches are forged from special alloy steels and scientifically heat treated to give the desired strength, toughness and hardness. Accurate openings speed work, reduce wear. Chrome plating gives a bright, rust-proof finish.



NO.	NOMINAL OPENING SIZES(A)	SMALL OPENING END		LARGE OPENING END		TOTAL LENGTH (L)	WT. LBS.
		HEAD O.D.(C)	HEAD THKNS.(D)	HEAD O.D.(C)	HEAD THKNS.(D)		
1120	5/16" x 3/8"	.53"	.28"	.60"	.31"	4 1/4"	.05
1122	3/8" x 7/16"	.60"	.31"	.69"	.33"	4 5/8"	.06
1125	7/16" x 1/2"	.73"	.34"	.81"	.34"	5"	.09
1125R	7/16" x 1 1/32"	.69"	.33"	.81"	.38"	5 1/4"	.09
1126	1/2" x 9/16"	.77"	.36"	.85"	.39"	5 3/8"	.11
1127	1/2" x 1 1/32"	.77"	.36"	.90"	.39"	5 9/16"	.12
1130	9/16" x 5/8"	.85"	.39"	.94"	.44"	5 3/4"	.14
1131	5/8" x 3/4"	.94"	.44"	1.10"	.44"	6 1/8"	.20
1133	1 1/32" x 1 1/16"	.90"	.39"	1.04"	.45"	10"	.30
1134	5/8" x 1 1/16"	.97"	.44"	1.06"	.45"	10 5/8"	.34
1135	1 1/16" x 3/4"	1.06"	.47"	1.14"	.47"	11 1/4"	.43
1136	1 1/16" x 7/8"	1.08"	.47"	1.34"	.53"	11 7/8"	.54
1137	1 1/16" x 2 1/32"	1.08"	.47"	1.20"	.50"	12 1/2"	.43
1139	3/4" x 7/8"	1.14"	.50"	1.30"	.56"	13 1/8"	.63
1140	1 3/16" x 7/8"	1.24"	.53"	1.30"	.56"	13 7/8"	.65
1141	7/8" x 1 1/16"	1.32"	.56"	1.52"	.61"	14 5/8"	.84
1145	1 5/16" x 1"	1.40"	.58"	1.50"	.59"	15 1/2"	.93
1147	1 5/16" x 1 1/16"	1.43"	.59"	1.62"	.59"	16 3/8"	1.08
1150	1 1/16" x 1 1/8"	1.59"	.61"	1.68"	.66"	17 1/4"	1.17
1151	1 1/16" x 1 1/4"	1.59"	.61"	1.85"	.69"	18 1/4"	1.38
1155	1 1/4" x 1 3/16"	1.91"	.70"	2.00"	.72"	19 1/4"	1.54
1160	1 1/4" x 1 3/8"	1.90"	.70"	2.08"	.73"	20 1/4"	1.82
1161	1 1/4" x 1 7/16"	1.91"	.75"	2.18"	.78"	21 1/4"	2.0
1162	1 3/16" x 1 1/2"	2.13"	.81"	2.23"	.84"	22 1/4"	2.3
1163	1 3/16" x 1 5/8"	2.50"	.90"	2.56"	.96"	23 1/4"	2.8
1164	1 5/8" x 1 11/16"	2.52"	.91"	2.58"	.97"	24 1/2"	3.1
LONG-TYPE (For Providing Additional Leverage on Hard Pulls)							
1120L	5/16" x 3/8"	.54"	.31"	.62"	.33"	7 3/8"	.09
1122L	3/8" x 7/16"	.63"	.34"	.72"	.34"	7 5/8"	.11
1125L	7/16" x 1/2"	.73"	.34"	.82"	.34"	7 7/8"	.14
1126L	1/2" x 9/16"	.83"	.38"	.92"	.38"	8 3/8"	.18
1130L	9/16" x 5/8"	.88"	.39"	.96"	.44"	8 7/8"	.24
1131L	5/8" x 3/4"	.96"	.44"	1.12"	.50"	9 1/16"	.37

BOX WRENCH SETS

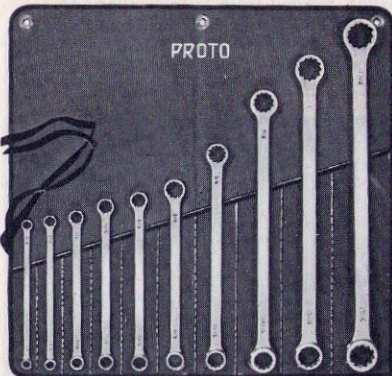


No. 1100K Set

A fine basic set of five double-end box wrenches in the most-used range to which you can add more sizes as they are needed. All opening sizes are provided from $\frac{3}{8}$ " to $\frac{7}{8}$ " by $\frac{1}{16}$ " steps.

Contents

NO.	OPENING SIZES	LENGTH
1122L	$\frac{3}{8}" \times \frac{7}{16}"$	$7\frac{5}{8}"$
1126L	$\frac{1}{2}" \times \frac{9}{16}"$	$8\frac{3}{8}"$
1130L	$\frac{9}{16}" \times \frac{5}{8}"$	$8\frac{7}{8}"$
1135	$\frac{11}{16}" \times \frac{3}{4}"$	$11\frac{1}{4}"$
1140	$\frac{13}{16}" \times \frac{7}{8}"$	$13\frac{3}{8}"$
2405	Vinyl Kit, 10"x15"	
Weight, 2.2 Lbs.		



No. 1100M Set

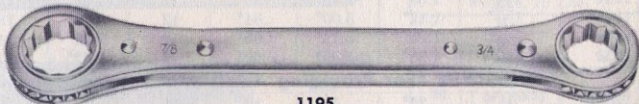
This master set of ten double-end box wrenches for professional use will take care of almost all common size nuts and bolts. It includes every nominal opening size from $\frac{5}{16}$ " to $1\frac{1}{8}$ " by $\frac{1}{16}$ " steps.

Contents

NO.	OPENING SIZES	LENGTH
1120L	$\frac{5}{16}$ " x $\frac{3}{8}$ "	$7\frac{3}{8}$ "
1122L	$\frac{3}{8}$ " x $\frac{1}{2}$ "	$7\frac{5}{8}$ "
1125L	$\frac{1}{2}$ " x $\frac{9}{16}$ "	$7\frac{7}{8}$ "
1126L	$\frac{1}{2}$ " x $\frac{9}{16}$ "	$8\frac{3}{8}$ "
1130L	$\frac{9}{16}$ " x $\frac{5}{8}$ "	$8\frac{7}{8}$ "
1131L	$\frac{9}{16}$ " x $\frac{3}{4}$ "	$9\frac{1}{8}$ "
1135	$\frac{11}{16}$ " x $\frac{3}{4}$ "	$11\frac{1}{4}$ "
1140	$\frac{13}{16}$ " x $\frac{7}{8}$ "	$13\frac{3}{8}$ "
1145	$\frac{15}{16}$ " x 1"	$15\frac{1}{2}$ "
1150	$1\frac{1}{16}$ " x $1\frac{1}{8}$ "	$17\frac{1}{4}$ "
2418	Vinyl Kit, $18\frac{7}{8}$ " x $18\frac{1}{2}$ "	
Weight, 5.2 Lbs.		

RATCHETING BOX WRENCHES

Many applications. User can safely loosen or tighten a nut and then fast run the nut without lifting wrench or switching to another tool. Turning over wrench reverses direction. Laminated construction adds strength and reduces weight. Chrome plated for rust protection.



1195

NO.	NOMINAL OPENING SIZES	NO. OF POINTS IN BOX	SMALL OPENING END		LARGE OPENING END		TOTAL LENGTH	WT. LBS.
			HEAD O.D.	HEAD THKNS.	HEAD O.D.	HEAD THKNS.		
1191	$\frac{1}{4}$ " x $\frac{5}{16}$ "	6	.56"	.38"	.63"	.38"	4 $\frac{1}{4}$ "	.13
1192	$\frac{3}{8}$ " x $\frac{7}{16}$ "	6	.75"	.38"	.88"	.38"	5 $\frac{1}{2}$ "	.18
1193	$\frac{1}{2}$ " x $\frac{9}{16}$ "	6	1.00"	.50"	1.13"	.50"	6 $\frac{3}{4}$ "	.39
1194	$\frac{5}{8}$ " x $1\frac{1}{16}$ "	12	1.19"	.50"	1.31"	.50"	8"	.60
†1196	$\frac{5}{8}$ " x $\frac{3}{4}$ "	12	1.31"	.50"	1.44"	.50"	8 $\frac{3}{8}$ "	.64
1195	$\frac{3}{4}$ " x $\frac{7}{8}$ "	12	1.38"	.50"	1.56"	.50"	9 $\frac{1}{4}$ "	.73

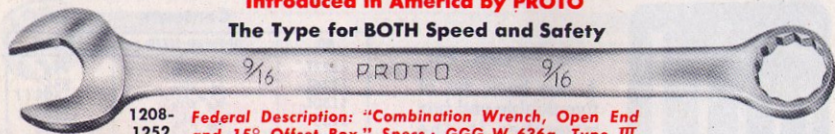
†Especially Useful on Oil Filters, Located in Hard-To-Reach Places on Late Model Fords, Mercurys, Lincolns and Other Cars.

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

COMB. BOX & OPEN END WRENCHES

Introduced in America by PROTO

The Type for BOTH Speed and Safety



1208- Federal Description: "Combination Wrench, Open End
1252 and 15° Offset Box." Specs.: GGG-W-636a, Type III.



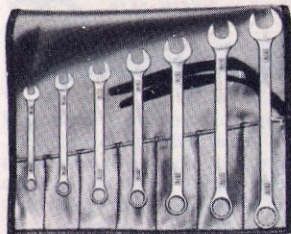
Same opening size on each end. Use safe box end for breaking loose a nut, turn the wrench end for end, and then use speedy open end for running off nut. Reverse procedure for running on and cinching nut. They have all features of both open end and box wrenches, described on preceding pages. Forged from special alloy steel.

NO.	NOMINAL OPENING SIZES(A)	OPEN END			BOX END			TOTAL LENGTH (L)	WT. LBS.
		JAW DEPTH(B)	HEAD WIDTH(C)	HEAD THKNS.(D)	NO. OF POINTS	HEAD O.D.(C)	HEAD THKNS.(D)		
1208	1/4"	.25"	.59"	.19"	6	.43"	.25"	3"	.02
1210	5/16"	.25"	.72"	.20"	12	.53"	.28"	3 3/4"	.03
1211	11/32"	.28"	.78"	.20"	6	.53"	.28"	4"	.06
1212	3/8"	.28"	.85"	.20"	12	.60"	.31"	4 1/2"	.06
1214	7/16"	.37"	.97"	.23"	12	.70"	.34"	5 1/4"	.10
1216	1/2"	.37"	1.08"	.27"	12	.78"	.36"	6"	.14
1218	9/16"	.50"	1.23"	.30"	12	.88"	.38"	6 3/4"	.20
1220	5/8"	.50"	1.36"	.33"	12	.96"	.44"	7 1/2"	.27
1222	11/16"	.56"	1.50"	.34"	12	1.04"	.47"	8 1/4"	.34
1224	3/4"	.59"	1.63"	.38"	12	1.12"	.50"	9 1/4"	.45
1226	13/16"	.62"	1.75"	.39"	12	1.22"	.53"	10 1/4"	.55
1228	7/8"	.69"	1.83"	.41"	12	1.30"	.53"	11 1/4"	.65
1230	15/16"	.75"	2.00"	.44"	12	1.40"	.58"	12 3/8"	.82
1232	1"	.75"	2.06"	.47"	12	1.50"	.59"	13 3/8"	.94
1234	1 1/16"	.81"	2.26"	.50"	12	1.58"	.63"	14 3/8"	1.19
1236	1 1/8"	.81"	2.37"	.52"	12	1.68"	.66"	15 3/4"	1.36
1240	1 1/4"	1.00"	2.63"	.53"	12	1.86"	.69"	17"	1.68
1242	1 1/2"	1.06"	2.70"	.56"	12	2.00"	.69"	18 1/8"	1.94
1244	1 3/8"	1.09"	2.88"	.59"	12	2.08"	.72"	19 3/8"	2.0
1246	1 7/16"	1.12"	3.00"	.64"	12	2.18"	.78"	20 5/8"	2.6
1248	1 1/2"	1.25"	3.13"	.66"	12	2.19"	.84"	21 3/4"	3.0
1252	1 5/8"	1.25"	3.56"	.69"	12	2.42"	.91"	23"	3.2

LONG-TYPE (For Providing Additional Leverage on Hard Pulls)

1208L	1/4"	.25"	.59"	.19"	6	.43"	.25"	4 7/8"	.04
1210L	5/16"	.25"	.72"	.20"	12	.53"	.28"	5 3/4"	.05
1210LH	5/16"	.25"	.72"	.20"	6	.53"	.28"	5 3/4"	.05
1212L	3/8"	.28"	.85"	.20"	12	.61"	.31"	6 5/8"	.08
1212LH	3/8"	.28"	.85"	.20"	6	.61"	.31"	6 5/8"	.08
1214L	7/16"	.37"	.97"	.23"	12	.72"	.34"	7 1/2"	.13
1214LH	7/16"	.37"	.97"	.23"	6	.72"	.34"	7 1/2"	.13
1216L	1/2"	.37"	1.08"	.27"	12	.79"	.36"	8 1/4"	.17
1216LH	1/2"	.37"	1.08"	.27"	6	.79"	.36"	8 1/4"	.17
1218L	9/16"	.50"	1.23"	.30"	12	.88"	.38"	9 1/8"	.25
1218LH	9/16"	.50"	1.23"	.30"	6	.88"	.38"	9 1/8"	.25
1220L	5/8"	.50"	1.36"	.33"	12	.98"	.44"	10"	.33
1222L	11/16"	.56"	1.50"	.34"	12	1.06"	.50"	10 7/8"	.38
1224L	3/4"	.59"	1.63"	.38"	12	1.14"	.50"	11 3/4"	.51

COMBINATION BOX AND OPEN END WRENCH SETS



No. 1200H Set

A very popular basic set of seven combination box and open end wrenches, including the most useful openings. Sizes range from $\frac{3}{8}$ " to $\frac{3}{4}$ " by $\frac{1}{16}$ " steps.

Contents

NO.	SIZE OF OPENINGS	LENGTH
1212	$\frac{3}{8}$ "	4 $\frac{1}{2}$ "
1214	$\frac{7}{16}$ "	5 $\frac{1}{4}$ "
1216	$\frac{1}{2}$ "	6"
1218	$\frac{9}{16}$ "	6 $\frac{3}{4}$ "
1220	$\frac{5}{8}$ "	7 $\frac{1}{2}$ "
1222	$\frac{11}{16}$ "	8 $\frac{1}{4}$ "
1224	$\frac{3}{4}$ "	9 $\frac{1}{4}$ "
2404 Vinyl Kit, 11 $\frac{3}{8}$ "x10 $\frac{1}{2}$ "		
Weight, 1.84 Lbs.		

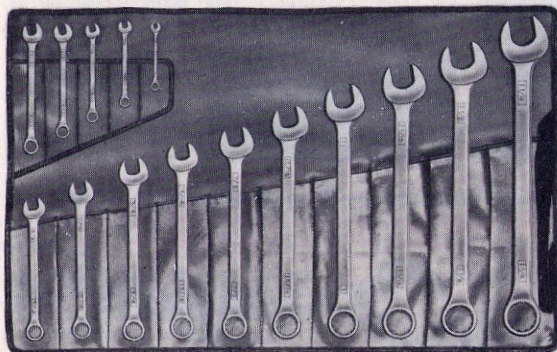
No. 1200F Set

A master set of fifteen combination box and open end wrenches that will handle close to

100% of all jobs in most types of industry. Includes opening sizes from $\frac{5}{16}$ " to $\frac{1}{4}$ ".

Contents

NO.	SIZE OF OPENINGS	LENGTH
1210	$\frac{5}{16}$ "	3 $\frac{3}{4}$ "
1212	$\frac{3}{8}$ "	4 $\frac{1}{2}$ "
1214	$\frac{7}{16}$ "	5 $\frac{1}{4}$ "
1216	$\frac{1}{2}$ "	6"
1218	$\frac{9}{16}$ "	6 $\frac{3}{4}$ "
1220	$\frac{5}{8}$ "	7 $\frac{1}{2}$ "
1222	$\frac{11}{16}$ "	8 $\frac{1}{4}$ "
1224	$\frac{3}{4}$ "	9 $\frac{1}{4}$ "
1226	$\frac{13}{16}$ "	10 $\frac{1}{4}$ "
1228	$\frac{7}{8}$ "	11 $\frac{1}{4}$ "
1230	$\frac{15}{16}$ "	12 $\frac{3}{8}$ "
1232	1"	13 $\frac{3}{8}$ "
1234	$\frac{11}{16}$ "	14 $\frac{3}{8}$ "
1236	$\frac{13}{16}$ "	15 $\frac{3}{4}$ "
1240	$\frac{1}{4}$ "	17"
2413 Vinyl Kit, 25"x18 $\frac{1}{2}$ "		
Weight, 10 Lbs.		

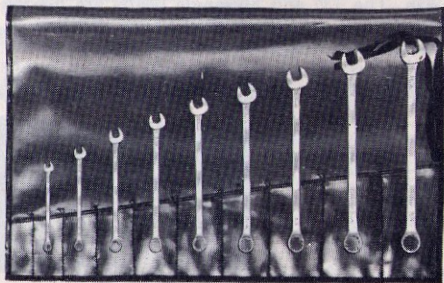


No. 1200L Set

A very useful set of the long-type, extra-leverage wrenches. Includes all nine available sizes, from $\frac{1}{4}$ " to $\frac{3}{4}$ ".

Contents

NO.	SIZE OF OPENINGS	LENGTH
1208L	$\frac{1}{4}$ "	4 $\frac{7}{8}$ "
1210L	$\frac{1}{2}$ "	5 $\frac{3}{4}$ "
1212L	$\frac{3}{8}$ "	6 $\frac{3}{8}$ "
1214L	$\frac{7}{16}$ "	7 $\frac{1}{2}$ "
1216L	$\frac{1}{2}$ "	8 $\frac{1}{4}$ "
1218L	$\frac{9}{16}$ "	9 $\frac{1}{8}$ "
1220L	$\frac{5}{8}$ "	10"
1222L	$\frac{11}{16}$ "	10 $\frac{7}{8}$ "
1224L	$\frac{3}{4}$ "	11 $\frac{3}{4}$ "
2415 Vinyl Kit, 12 $\frac{3}{4}$ "x13 $\frac{1}{8}$ "		
Weight, 2.4 Lbs.		



NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

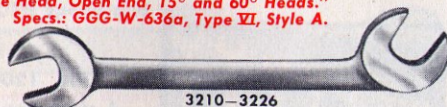
MIDGET OPEN END WRENCHES

Midget Open End Obstruction Wrenches—15° and 60°-Angle Heads

Federal Description: "Ignition Wrench, Double Head, Open End, 15° and 60° Heads."

Specs.: GGG-W-636a, Type VI, Style A.

NO.	NOMINAL OPENING SIZES		HEAD THICKNESS	LENGTH	WT. LBS.
	15° END	60° END			
3210	13/64"	15/64"	7/64"	3"	.02
3211	15/64"	13/64"	7/64"	3"	.02
3215	7/32"	1/4"	7/64"	3"	.02
3216	1/4"	7/32"	7/64"	3"	.02
3220	9/32"	9/16"	5/32"	3 1/2"	.03
3221	5/16"	9/32"	5/32"	3 1/2"	.03
3225	11/32"	3/8"	5/32"	3 3/4"	.04
3226	3/8"	11/32"	5/32"	3 3/4"	.04



3210—3226

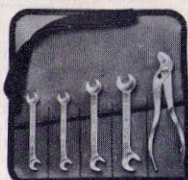
The two openings on each wrench are duplicated on another wrench but at different head angles. Each pair, therefore, provides two opening sizes in both 15° and 60° angles. They are used on carburetors, timers, generators, radios and other electrical equipment. Forged from alloy steel.

No. 3200B Set

A handy set of four obstruction-type wrenches with eight opening sizes, plus a midget plier.

Contents

NO.	OPEN. SIZES	LGTH.
3210	$13\frac{64}{64} \times 15\frac{64}{64}$	3"
3215	$7\frac{32}{32} \times 1\frac{4}{4}$	3"
3220	$9\frac{32}{32} \times 5\frac{16}{16}$	3 $\frac{1}{2}$ "
3225	$11\frac{32}{32} \times 3\frac{8}{8}$	3 $\frac{3}{4}$ "
235	Midget Plier	
2417	Vinyl Kit	
Weight, .28 Lb.		

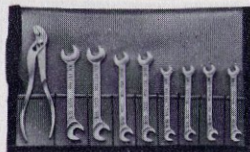


No. 3200D Set

A master set of all eight midget obstruction-type open end wrenches and a midget ignition plier.

Contents

NO.	OPEN. SIZES	LGTH.
3210	$13\frac{64}{64} \times 15\frac{64}{64}$	3"
3211	$15\frac{64}{64} \times 13\frac{64}{64}$	3"
3215	$7\frac{32}{32} \times 1\frac{4}{4}$	3"
3216	$1\frac{4}{4} \times 7\frac{32}{32}$	3"
3220	$9\frac{32}{32} \times 9\frac{16}{16}$	3 $\frac{1}{2}$ "
3221	$5\frac{16}{16} \times 9\frac{32}{32}$	3 $\frac{1}{2}$ "
3225	$11\frac{32}{32} \times 3\frac{8}{8}$	3 $\frac{3}{4}$ "
3226	$3\frac{8}{8} \times 11\frac{32}{32}$	3 $\frac{3}{4}$ "
235	Midget Plier	
2416	Vinyl Kit	
Weight, .40 Lb.		

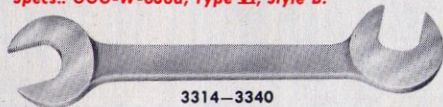


Midget Open End Electrical Wrenches—15° and 80°-Angle Heads

Federal Description: "Ignition Wrench, Double Head, Open End, 15° and 80° Heads."

Specs.: GGG-W-636a, Type VI, Style B.

NO.	NOMINAL OPENING SIZE BOTH ENDS		HEAD THICKNESS	LENGTH	WT. LBS.
	15°	80°			
3314	7/32"	7/64"	7/64"	3 1/4"	.02
3315	15/64"	7/64"	7/64"	3 1/4"	.02
3316	1/4"	7/64"	7/64"	3 1/4"	.02
3318	9/32"	7/32"	5/32"	3 5/8"	.03
3320	5/16"	9/32"	5/32"	3 5/8"	.03
3322	11/32"	5/32"	5/32"	4"	.04
3324	3/8"	5/32"	5/32"	4"	.04
3328	7/16"	11/64"	11/64"	4 3/4"	.07
3332	1/2"	11/64"	11/64"	4 3/4"	.07
3336	9/16"	3/16"	3/16"	5 3/4"	.14
3340	5/8"	3/16"	3/16"	5 3/4"	.12



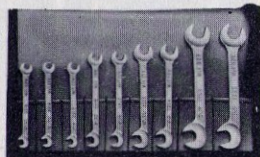
3314—3340

Both openings on each wrench are the same size. The 15° and 80°-angle heads are needed for delicate adjustments on timers, generators, radios, etc. Nos. 3336 and 3340 are for tractor and industrial use. All sizes have narrow shanks and small fillet radii. Forged from alloy steel.

No. 3300A Set

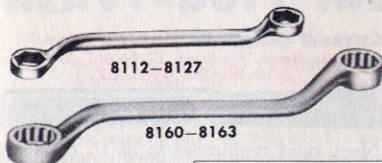
A highly useful set of nine electrical-type midget open end wrenches with nine opening sizes. Contents at right.

NO.	OPEN. SIZES	LGTH.	NO.	OPEN. SIZES	LGTH.
3314	$\frac{7}{32}"$	$3\frac{1}{4}"$	3322	$\frac{11}{32}"$	4"
3315	$\frac{15}{64}"$	$3\frac{1}{4}"$	3324	$\frac{3}{8}"$	4"
3316	$\frac{1}{4}"$	$3\frac{1}{4}"$	3328	$\frac{7}{16}"$	$4\frac{3}{4}"$
3318	$\frac{9}{32}"$	$3\frac{5}{8}"$	3332	$\frac{1}{2}"$	$4\frac{3}{4}"$
3320	$\frac{5}{16}"$	$3\frac{5}{8}"$	2410 Vinyl Kit		
Weight, .42 Lb.					



NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

OFFSET BOX WRENCHES



Federal Description:
"Box Wrench, Double Head, 12-Point, Double Offset Each End."
Specs.: GGG-W-636a, Type I, Class 2, Style A (Nos. 8180-8185) and Style B (Nos. 8160-8163).

Reach into casting depressions, counter-bored places and other tight spots where usual wrenches can't be used. Heads are offset 45°, providing the needed height for many jobs. Thin, strong box wrenches allow maximum clearance. Forged from special alloy steel and chrome plated.

MIDGET TYPE—HEXAGON (6-POINT)

NO.	NOMINAL OPENING SIZES(A)	SMALL OPENING END			LARGE OPENING END			TOTAL LENGTH (L)	WT., LBS.
		HEAD O.D.(C)	HEAD THKNS.(D)	HD. OFF-SET(E)	HEAD O.D.(C)	HEAD THKNS.(D)	HD. OFF-SET(E)		
8112	$\frac{3}{16} \times \frac{13}{64}$	.31"	.14"	.25"	.33"	.14"	.25"	$2\frac{7}{8}$ "	.01
8117	$\frac{7}{32} \times \frac{15}{64}$	.35"	.16"	.25"	.38"	.16"	.25"	$3\frac{1}{8}$ "	.02
8122	$\frac{1}{4} \times \frac{9}{32}$	.41"	.17"	.28"	.44"	.17"	.28"	$3\frac{3}{4}$ "	.03
8127	$\frac{5}{16} \times \frac{11}{32}$	.48"	.19"	.30"	.53"	.19"	.30"	$3\frac{7}{8}$ "	.04

SHORT TYPE—HEXAGON (6-POINT)

8160H	$\frac{3}{8} \times \frac{7}{16}$	.63"	.31"	.56"	.70"	.31"	.56"	5"	.09
8161H	$\frac{1}{2} \times \frac{9}{16}$	.78"	.34"	.62"	.85"	.34"	.62"	$5\frac{1}{2}$ "	.14

SHORT TYPE—DOUBLE HEXAGON (12-POINT)

8160	$\frac{3}{8} \times \frac{7}{16}$	.63"	.31"	.56"	.70"	.31"	.56"	5"	.08
8161	$\frac{1}{2} \times \frac{9}{16}$	.78"	.36"	.62"	.85"	.36"	.62"	$5\frac{1}{2}$ "	.12
8162	$\frac{5}{8} \times \frac{11}{16}$	.95"	.47"	.72"	1.03"	.47"	.72"	6"	.19
8163	$\frac{3}{4} \times \frac{13}{16}$	1.10"	.55"	.81"	1.23"	.55"	.81"	$6\frac{1}{2}$ "	.25

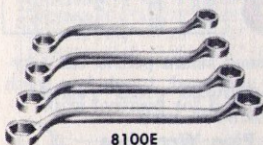
LONG TYPE—HEXAGON (6-POINT)

8180H	$\frac{3}{8} \times \frac{7}{16}$	.62"	.31"	.56"	.71"	.31"	.69"	$7\frac{3}{4}$ "	.16
8181H	$\frac{1}{2} \times \frac{9}{16}$	.78"	.34"	.56"	.85"	.34"	.56"	9"	.26

LONG TYPE—DOUBLE HEXAGON (12-POINT)

8180	$\frac{3}{8} \times \frac{7}{16}$	.62"	.33"	.56"	.71"	.33"	.69"	$7\frac{3}{4}$ "	.16
8181	$\frac{1}{2} \times \frac{9}{16}$	.78"	.36"	.62"	.85"	.36"	.62"	9"	.25
8182	$\frac{5}{8} \times \frac{11}{16}$	.95"	.47"	.72"	1.03"	.47"	.72"	$10\frac{1}{4}$ "	.38
8183	$\frac{3}{4} \times \frac{25}{32}$	1.10"	.55"	.81"	1.19"	.55"	.81"	$11\frac{1}{2}$ "	.46
8184	$\frac{15}{16} \times \frac{7}{8}$	1.29"	.61"	.87"	1.36"	.61"	.87"	$12\frac{1}{4}$ "	.66
8185	$\frac{15}{16} \times 1$	1.36"	.67"	.94"	1.42"	.67"	.94"	14"	.93

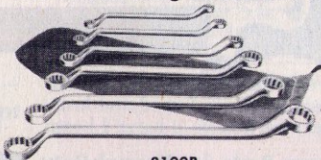
No. 8100E Midget Offset Box Wrench Set



8100E

Includes all four midget wrenches, Nos. 8112 - 8127. Wt., .12 Lb.

No. 8100B Long Offset Box Wrench Set



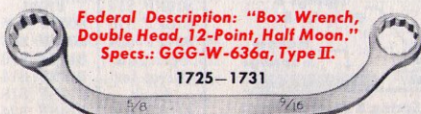
8100B

Includes all six long type, 12-pt. wrenches—Nos. 8180-8185—in free cloth bag. Wt., 3.3 Lbs.

OBSTRUCTION 12-PT. BOX WRENCHES

For turning nuts where obstructions prevent easy access with straight wrenches, and

particularly useful on many starters. Clearance at middle is 1". Made of alloy steel.



Federal Description: "Box Wrench, Double Head, 12-Point, Half Moon."
Specs.: GGG-W-636a, Type II.

1725-1731

NO.	NOMINAL OPENING SIZES	HEAD THICKNESS	LENGTH	WT., LBS.
1725	$\frac{7}{16} \times \frac{1}{2}$	$2\frac{3}{64}$ "	$5\frac{11}{16}$ "	.12
1730	$\frac{9}{16} \times \frac{5}{8}$	$\frac{3}{8}$ "	$6\frac{1}{2}$ "	.20
1731	$\frac{5}{8} \times \frac{3}{4}$	$1\frac{1}{32}$ "	$7\frac{5}{8}$ "	.33

FLARE NUT WRENCHES

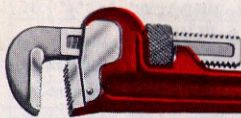
NO.	OPEN- ING	HEAD SLOT	HEAD THKNS.	LGTH.	WT. LBS.
3712	3/8"	9/32"	5/16"	6 1/4"	.23
3714	7/16"	11/32"	7/32"	6 3/8"	.22
3716	1 1/2"	3/8"	7/16"	6 1/2"	.24
3718	9/16"	1/2"	7/16"	6 3/8"	.23
3720	5/8"	1 1/2"	15/32"	6 3/4"	.32
3724	3/4"	5/8"	9/16"	7"	.38
3728	7/8"	1 1/16"	5/8"	7 1/4"	.48
3730	1 5/16"	3/4"	5/8"	7 3/8"	.46
3732	1"	3/4"	11/16"	7 1/2"	.58
3734	1 1/16"	13/16"	3/4"	7 5/8"	.56
3736	1 1/8"	7/8"	25/32"	7 3/4"	.66

Federal Description: "Flare Nut Wrench, Single Head, Modified 12-Point." Specs.: GGG-W-636a, Type XIV.



Meet rigid requirements of U. S. Navy and Army Air Forces. For assembly and repair of fluid and gas lines on hydraulic units, air brake systems, compressors, instruments, etc. Nine gripping points and deep walls prevent slippage and chewing of soft metal fittings. Forged from special alloy steel.

PIPE WRENCHES



Heavy-Duty Type

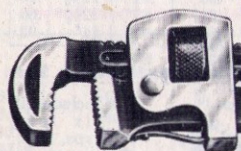
Federal Description: "Adjustable Heavy-Duty Pipe Wrench." Specs.: GGG-W-651b, Type II, Class A.

Spare Parts for Heavy-Duty Pipe Wrenches

DESCRIPTION	FOR 806HD	FOR 808HD	FOR 810HD	FOR 814HD	FOR 818HD	FOR 824HD
Handle, Heel Jaw & Pin Assembly	806A	808A	810A	814A	818A	824A
Hook Jaw	806B	808B	810B	814B	818B	824B
Heel Jaw & Pin	806C	808C	810C	814C	818C	824C
Knurl	806D	808D	810D	814D	818D	824D
Flat Spring	806E	808E	810E	814E	818E	824E
Coil Spring	806G	808G	810G	814G	818G	824G

NO.	LGTH.	MAXIMUM PIPE SIZE	WT. LBS.
806HD	6"	3 1/4"	.45
808HD	8"	1"	.85
810HD	10"	1 1/2"	1.80
814HD	14"	2"	3.5
818HD	18"	2 1/2"	5.8
824HD	24"	3"	9.6

Rugged design, engineered for light weight and good balance. Features include heat-treated, precision milled teeth, pipe sizes on forged hook jaw, I-beam handle of alloy ductile iron, and alloy steel jaws.



Normal-Duty Stillson-Pattern

Federal Description: "Normal-Duty Adjustable Pipe Wrench." Specs.: GGG-W-651b, Type I, Class A.

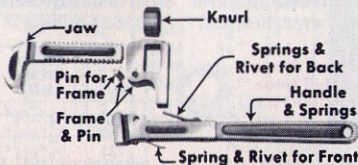
NO.	LENGTH	MAXIMUM PIPE SIZE	WT. LBS.
806	6"	1 1/2"	.32
808	8"	3/4"	.65
810	10"	1"	1.38
814	14"	1 1/2"	2.6
818	18"	2"	4.1
824	24"	2 1/2"	7.3

Strength far exceeds Government normal-duty specifications. Have forged and heat-treated special steel handle of panel I-beam

type, strengthened strain points, an easy-turning knurl, and hard, tough jaw teeth that are deep-milled for positive grip.

Spare Parts for Normal-Duty, Stillson-Pattern Pipe Wrenches

NO.	FOR	NO.	FOR	NO.	FOR	NO.	FOR	NO.	FOR	NO.	FOR	NO.	FOR
Handle & Spring	808J	808	810J	810	806H	806	814J	814	808H	808	818J	818	824J
Handle & Springs	824J	824	Knurl	806K	806	814H	814	808K	808	818H	818	814K	814
Jaw	818K	818	824K	824	Pin for Frame	806P	806	808P	808	810P	810	818P	818
					Spring & Rivet for Back	814P	814	824P	824	Frame & Pin	814SB	814	818SB
					Spring & Rivet for Front	806PF	806	824SB	824	808PF	808	810SF	810
						810PF	810	818PF	818	808SF	808	810SF	810
						824PF	824	818SF	818	814SF	814	818SF	818
						810SB	810	824SF	824				



HEAVY-DUTY INDUSTRIAL WRENCHES

Slugging Wrenches—12-Point Box Type

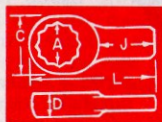
Federal Description: "Slugging Wrench, 12-Point Box, Short (or Long)." Specs.: GGG-W-636a, Type XI, Style A (Nos. USN221-274) and Style B (Nos. USN326-374).

For all types of heavy installation and repair work where space is restricted. Opening fits snugly upon bolt or nut and remains

in position when struck with heavy sledge. Forged from special alloy steel and protected from rust by Parco-Lubrite finish.



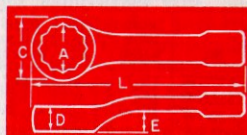
Short Type



NO.	NOM. OPEN. SIZE(A)	HEAD O.D. (C)	HEAD THKNS. (D)	SHANK LGTH. (J)	TOTAL LGTH. (L)	WT. LBS.
USN221	1 1/16"	2.47"	.88"	3.25"	6"	1.84
USN223	1 1/8"	2.50"	.88"	3.25"	6 1/4"	1.80
USN224	1 1/2"	2.50"	.88"	3.25"	6 1/4"	1.76
USN226	1 3/8"	3.00"	1.13"	3.75"	7 1/8"	3.3
USN227	1 1/16"	3.00"	1.13"	3.75"	7 1/8"	3.3
USN229	1 1/8"	3.00"	1.13"	3.75"	7 1/8"	3.2
USN230	1 3/8"	3.00"	1.13"	3.75"	7 1/8"	3.0
USN232	2"	3.66"	1.38"	3.75"	7 3/4"	5.0
USN235	2 3/16"	3.66"	1.38"	3.75"	7 3/4"	4.7
USN236	2 1/4"	3.66"	1.38"	3.75"	7 3/4"	4.7
USN238	2 3/8"	4.28"	1.63"	3.87"	8 1/2"	8.0
USN241	2 1/16"	4.28"	1.63"	3.87"	8 1/2"	7.6
USN242	2 3/8"	4.28"	1.63"	3.87"	8 1/2"	7.7
USN244	2 3/4"	4.75"	1.88"	4.50"	9 1/2"	12
USN247	2 1/8"	4.75"	1.88"	4.50"	9 1/2"	12
USN248	3"	4.75"	1.88"	4.50"	9 1/2"	11
USN250	3 1/8"	4.75"	1.88"	4.50"	9 1/2"	11
USN254	3 3/8"	5.69"	2.00"	4.00"	10 3/8"	14
USN256	3 1/2"	5.69"	2.00"	4.00"	10 3/8"	14
USN260	3 3/4"	6.31"	2.25"	4.25"	11"	20
USN262	3 7/8"	6.31"	2.25"	4.25"	11"	19
USN266	4 1/8"	6.72"	2.38"	4.00"	11 1/16"	22
USN268	4 1/4"	6.72"	2.38"	4.00"	11 1/16"	22
USN272	4 1/2"	7.25"	2.75"	4.25"	12"	28
USN274	4 5/8"	7.25"	2.75"	4.25"	12"	27



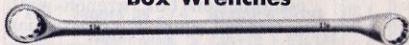
Long Type



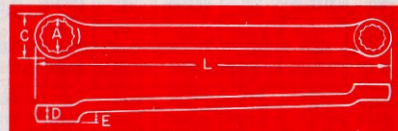
NO.	NOM. OPEN. SIZE(A)	HEAD O.D. (C)	HEAD THKNS. (D)	HEAD OFFSET (E)	TOTAL LENGTH (L)	WT. LBS.
USN326	1 5/8"	2.75"	1.13"	1.00"	10"	3.2
USN327	1 11/16"	2.75"	1.13"	1.00"	10"	3.1
USN329	1 13/16"	2.75"	1.13"	1.00"	10"	3.0
USN330	1 7/8"	3.00"	1.13"	1.12"	10 3/4"	4.0
USN332	2"	3.00"	1.38"	1.12"	10 3/4"	3.8
USN335	2 3/16"	3.56"	1.38"	1.25"	11"	5.0
USN336	2 1/4"	3.56"	1.38"	1.25"	11"	4.9
USN338	2 3/8"	3.56"	1.63"	1.25"	14 1/2"	8.6
USN341	2 9/16"	4.13"	1.63"	1.50"	14 1/2"	8.3
USN342	2 5/8"	4.13"	1.63"	1.50"	14 1/2"	8.0
USN344	2 3/4"	4.13"	1.88"	1.50"	14 1/2"	7.7
USN348	3"	4.63"	1.88"	1.75"	15 3/4"	12
USN350	3 1/8"	4.63"	1.88"	1.75"	15 3/4"	11
USN354	3 3/8"	5.25"	2.00"	1.87"	17 3/8"	16
USN356	3 1/2"	5.25"	2.00"	1.87"	17 3/8"	15
USN366	4 1/8"	6.13"	2.88"	2.25"	16"	26
USN368	4 1/4"	6.13"	2.88"	2.25"	18"	25
USN372	4 1/2"	6.63"	3.00"	0.00"	19 3/4"	34
USN374	4 5/8"	6.63"	3.00"	0.00"	19 3/4"	33

Additional Sizes Can Be Made on Special Order.

Heavy-Duty Double-End 12-Point Box Wrenches



Made stronger in neck, without increasing thickness between opening and under side of the offset. Work in close places, like castings and flanges with ribs or bosses adjacent to bolt holes. Forged from special alloy steel and have Parco-Lubrite finish.



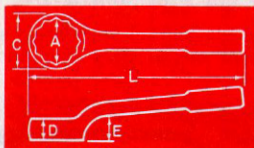
NO.	NOMINAL OPENING SIZE(A)	SMALL OPENING END			LARGE OPENING END			TOTAL LENGTH (L)	WT. LBS.
		HEAD O.D.(C)	HEAD THKNS.(D)	HD. OFF. SET(E)	HEAD O.D.(C)	HEAD THKNS.(D)	HD. OFF. SET(E)		
1051	1 1/16" x 1 1/4"	1.56"	.69"	.94"	1.78"	.81"	1.06"	16 1/2"	2.1
1053	1 1/8" x 1 3/16"	1.63"	.75"	1.03"	1.94"	.88"	1.19"	18 1/8"	2.4
1061	1 1/4" x 1 1/8"	1.78"	.88"	1.34"	2.13"	.94"	1.37"	20"	3.9
1063	1 1/2" x 1 3/8"	2.19"	1.00"	1.50"	2.47"	1.13"	1.50"	22 1/2"	4.6
1066	1 3/8" x 2"	2.66"	1.19"	1.56"	2.84"	1.25"	1.66"	25 3/4"	7.4
1069	2 3/16" x 2 3/8"	3.13"	1.38"	1.87"	3.38"	1.50"	2.00"	27"	9.0

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

HEAVY-DUTY INDUSTRIAL WRENCHES

Striking Wrenches—12-Point Box Type

Federal Description: "Striking Wrench, 12-Point Box." Specs.: GGG-W-636a, Type XII.



An Original Development by PROTO



NO.	NOM. OPEN. SIZE(A)	HEAD O.D. (C)	HEAD THICK-NESS(D)	HEAD OFFSET (E)	TOTAL LGTH. (L)	WT. LBS.
2617SW	1 1/16"	1.59"	.63"	.94"	8 1/2"	1.70
2618SW	1 1/8"	1.59"	.63"	.94"	8 1/2"	1.60
2620SW	1 1/4"	1.88"	.81"	1.19"	10 3/4"	3.2
2621SW	1 5/16"	1.88"	.81"	1.19"	10 3/4"	3.0
2623SW	1 3/8"	2.19"	1.00"	1.50"	12"	4.7
2624SW	1 1/2"	2.19"	1.00"	1.50"	12"	4.4
2626SW	1 5/8"	2.41"	1.13"	1.50"	12 1/4"	4.6
2627SW	1 11/16"	2.41"	1.13"	1.50"	12 1/4"	4.5
2629SW	1 13/16"	2.66"	1.19"	1.56"	13 1/16"	6.6
2630SW	1 7/8"	2.84"	1.25"	1.66"	13 1/16"	6.8
2632SW	2"	2.84"	1.25"	1.66"	13 1/16"	6.6
2635SW	2 3/16"	3.38"	1.50"	2.00"	13 3/8"	8.2
2638SW	2 3/8"	3.38"	1.50"	2.00"	13 3/8"	7.8
2641SW	2 3/16"	4.00"	1.50"	2.25"	13 3/8"	8.7
2644SW	2 3/4"	4.00"	1.50"	2.25"	13 3/8"	8.2
2647SW	2 11/16"	4.44"	1.88"	2.62"	16"	13
2650SW	3 1/8"	4.44"	1.88"	2.62"	16"	12

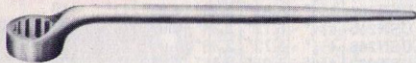
Striking wrenches have a square striking shank for use in restricted quarters with a sledge or hammer. They are offset to allow maximum clearance. These wrenches are necessary for the tightening and loosening of large bolts and nuts. Like all of the heavy-duty PROTO industrial wrenches, they are noted for their great strength, being forged from PROTO-specified alloy steels. Although strong enough for extra heavy duty, they are streamlined to reduce unnecessary weight. Rust protection is by Parco-Lubrite finish.

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

Heavy-Duty Spud-End 12-Point Box Wrenches



Federal Description: "Structural Wrench, Offset Handle, Box, 12-Point, Single Head." Specs.: GGG-W-636a, Type IX, Class 2.



NO.	NOM. OPEN. SIZE(A)	HEAD O.D. (C)	HEAD THICK-NESS(D)	HEAD OFFSET (E)	SHANK DIAM. ETHER(F)	TOTAL LGTH. (L)	WT. LBS.
2615	1 5/16"	1.34"	.63"	.94"	.69"	14 1/2"	1.13
2617	1 1/8"	1.56"	.69"	.94"	.75"	15 5/8"	1.30
2618	1 1/8"	1.59"	.69"	.94"	.75"	16 3/4"	1.94
2620	1 1/4"	1.78"	.81"	1.06"	.75"	17"	2.2
2623	1 3/8"	2.13"	.94"	1.37"	.87"	19"	3.0
2624	1 1/2"	2.19"	1.00"	1.50"	.87"	20 1/8"	3.3
2626	1 5/8"	2.47"	1.13"	1.50"	.87"	21 1/4"	3.6
2627	1 11/16"	2.47"	1.13"	1.50"	.87"	22 1/4"	3.7
2629	1 13/16"	2.66"	1.19"	1.56"	1.00"	23 1/4"	5.5
2630	1 7/8"	2.84"	1.25"	1.66"	1.00"	24 1/4"	5.6
2632	2"	2.84"	1.25"	1.66"	1.00"	25 1/4"	6.0
2635	2 3/16"	3.13"	1.38"	1.87"	1.00"	26"	6.4
2638	2 3/8"	3.38"	1.50"	2.00"	1.00"	27"	7.0
2641	2 3/16"	4.00"	1.50"	2.25"	1.06"	28"	8.7
2644	2 3/4"	4.00"	1.50"	2.25"	1.12"	29"	8.2
2647	2 11/16"	4.44"	1.88"	2.62"	1.19"	29 3/4"	12
2650	3 1/8"	4.44"	1.88"	2.62"	1.19"	30"	11

You will note an innovation in this wrench, as a real safety factor has been introduced. It is a combination box wrench with a tapered spud handle, which makes quick work of loosening frozen or corroded bolts or nuts. The spud end is very handy for aligning holes in flanges. Note the clearance provided by the offset head which overcomes the usual clearance problems. These wrenches are ideal for construction, refineries, etc. Forged from alloy steel, they are extra strong. Parco-Lubrite finish protects them from rust.

POWER AND IMPACT-TYPE SOCKET WRENCHES AND ATTACHMENTS

Engineered for Extra Rugged Service on All Types of Power Nut-Running and Impact Nut-Setting Wrenches, and for Heavy-Duty Use on Manual Attachments

Federal Specs.: GGG-W-660.

PROTOLOY® alloy steels, scientific heat treatment and advanced design provide these sockets with great strength, toughness, snug fit, freedom from slipping, and maximum clearance for speed and ease in handling. All of these features give a high safety factor, long life and low cost.

They fit most clutch-type power nut runners and electric or pneumatic impact nut setters. They also fit manual socket handles and therefore are ideal for many

® Registered U.S. Pat. Off.

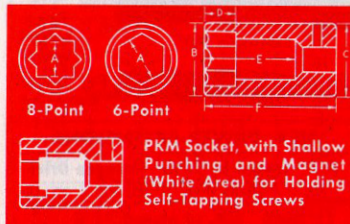
jobs demanding strength greater than provided in regular thinner-wall sockets.

PROTO power and impact sockets are widely used by all types of manufacturers for assembly and maintenance work, and are noted for their outstanding performance on production lines. They are popular also with mechanics for tractor, truck, bus, construction equipment and car repairing.

Finish is black oxide, with oil dip.

The very complete line provides the right socket wrench for almost every need.

1/4" SQUARE DRIVE POWER SOCKETS



Regular Length Socket



Hex Driver-Extension



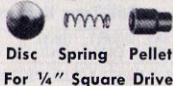
HEX DRIVER-EXTENSION

1/4" Square by 1/4" Hexagon Drive

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7102	3/8"	2"	.03

Extension Socket-Holding Parts

PART NO.	PART
7100 1/4DD	Disc
7100 1/4P	Pellet
7100 1/4S	Spring



Disc Spring Pellet For 1/4" Square Drive

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
6906H	3/16"	.315"	.447"	.109"	.500"	1 15/16"	.02
6907H	7/32"	.343"	.447"	.140"	.500"	1 15/16"	.02
6908H	1/4"	.390"	.447"	.156"	.500"	1 15/16"	.03
6909H	9/32"	.447"	.447"	.172"	.500"	1 15/16"	.03
6910H	5/16"	.450"	.450"	.203"	.500"	1 15/16"	.03
6911H	11/32"	.510"	.510"	.219"	.500"	1 15/16"	.03
6912H	3/8"	.540"	.540"	.234"	.500"	1 15/16"	.03
6914H	7/16"	.635"	.635"	.281"	.500"	1 15/16"	.05

REGULAR LENGTH SOCKETS FOR SELF-TAPPING SCREWS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
6906PK	3/16"	.447"	.447"	.093"	.500"	1 15/16"	.02
6908PK	1/4"	.447"	.447"	.109"	.500"	1 15/16"	.02
6909PK	9/32"	.447"	.447"	.125"	.500"	1 15/16"	.03
6910PK	5/16"	.510"	.510"	.125"	.500"	1 15/16"	.03
6912PK	3/8"	.572"	.572"	.140"	.500"	1 15/16"	.03

REGULAR LENGTH MAGNETIC SOCKETS FOR SELF-TAPPING SCREWS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
6906PKM	3/16"	.447"	.447"	.094"	0	1 15/16"	.03
6908PKM	1/4"	.447"	.447"	.125"	0	1 15/16"	.03
6909PKM	9/32"	.447"	.447"	.125"	0	1 15/16"	.03
6910PKM	5/16"	.510"	.510"	.125"	0	1 15/16"	.04
6911PKM	11/32"	.541"	.541"	.125"	0	1 15/16"	.04
6912PKM	3/8"	.572"	.572"	.141"	0	1 15/16"	.04

REG. LENGTH SOCKETS — DOUBLE SQUARE (8-PT.)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
6908S	1/4"	.450"	.450"	.187"	.500"	1 15/16"	.03
6910S	5/16"	.541"	.541"	.219"	.500"	1 15/16"	.06
6912S	3/8"	.666"	.666"	.265"	.500"	1 15/16"	.06
6914S	7/16"	.760"	.760"	.343"	.500"	1 15/16"	.08

3/8" SQUARE DRIVE POWER SOCKETS

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE (A)	OUTSIDE DIAM. NUT END (B)	OUTSIDE DIAM. DRIVE END (C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7210H	5/16"	.505"	.697"	.219"	.359"	7/8"	.07
7211H	1/32"	.517"	.697"	.281"	.359"	7/8"	.07
7212H	3/8"	.557"	.697"	.281"	.359"	7/8"	.05
7214H	7/16"	.638"	.697"	.281"	.437"	7/8"	.05
7216H	1/2"	.760"	.760"	.281"	.437"	7/8"	.06
7218H	9/16"	.791"	.791"	.281"	.437"	7/8"	.07
7219H	19/32"	.843"	.843"	.281"	.437"	7/8"	.07
7220H	5/8"	.885"	.885"	.281"	.437"	7/8"	.10
7222H	1 1/16"	.952"	.952"	.422"	.562"	1"	.16
7224H	3/4"	1.042"	1.042"	.422"	.562"	1"	.21

REGULAR LENGTH SOCKETS FOR SELF-TAPPING SCREWS — HEXAGON (6-POINT)

7210PK	5/16"	.505"	.697"	.187"	.359"	7/8"	.05
7212PK	3/8"	.630"	.760"	.187"	.359"	7/8"	.05
7214PK	7/16"	.687"	.760"	.187"	.437"	7/8"	.08
7216PK	1/2"	.705"	.760"	.281"	.437"	7/8"	.07

REGULAR LENGTH MAGNETIC SOCKETS FOR SELF-TAPPING SCREWS — HEXAGON (6-POINT)

7210PKM	5/16"	.484"	.697"	.187"	0	1 1/16"	.05
7212PKM	3/8"	.671"	.760"	.187"	0	1 1/16"	.07
7214PKM	7/16"	.687"	.760"	.187"	0	1 1/16"	.09
7216PKM	1/2"	.703"	.760"	.281"	0	1 1/16"	.08

REG. LENGTH SOCKETS — DOUBLE SQUARE (8-PT.)

7210S	5/16"	.635"	.697"	.125"	.359"	7/8"	.07
7212S	3/8"	.666"	.697"	.187"	.359"	7/8"	.07
7214S	7/16"	.760"	.760"	.250"	.437"	1"	.07
7216S	1/2"	.885"	.885"	.250"	.437"	1"	.10

DEEP LENGTH SOCKETS — HEXAGON (6-POINT)

7010H	5/16"	.512"	.697"	.312"	.953"	1 1/2"	.10
7011H	1/32"	.512"	.697"	.312"	.953"	1 1/2"	.10
7012H	3/8"	.547"	.697"	.312"	.953"	1 1/2"	.11
7014H	7/16"	.633"	.697"	.359"	1.000"	1 1/2"	.09
7016H	1/2"	.713"	.760"	.406"	1.000"	1 1/2"	.09
7018H	9/16"	.791"	.791"	.453"	1.000"	1 1/2"	.12
7020H	5/8"	.885"	.885"	.500"	1.000"	1 1/2"	.14
7022H	1 1/16"	.947"	.947"	.546"	1.000"	1 1/2"	.20
7024H	3/4"	1.041"	1.041"	.594"	1.000"	1 1/2"	.24

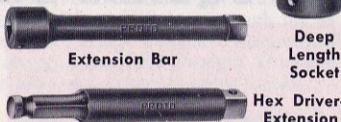
BALL-TYPE UNIVERSAL SOCKETS — HEXAGON (6-PT.)

7273	3/8"	.598"	.853"	.312"	.406"	2 1/8"	.24
7274	7/16"	.682"	.853"	.343"	.437"	2 3/8"	.25
7275	1/2"	.746"	.853"	.375"	.500"	2 1/4"	.25
7276	9/16"	.826"	.853"	.422"	.500"	2 3/8"	.26
7277	5/8"	.884"	.853"	.437"	.562"	2 1/32"	.26

No. 7270 Universal Joint

Ball-type. Length, 2 3/8". Weight, .28 Lb.

Parts: Female End—7270PF. Male End—7270PM. Pin—7270PN. Snap Ring—7270SR. Holding Spring—7270SP. Pellet—7270PP. Pellet Spring—7270PS.



HEX DRIVER-EXTENSIONS

3/8" Square by 7/16" Hexagon Drive

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7111	9/16"	2 3/4"	.14
7113	9/16"	5"	.30
7115	9/16"	8"	.50
7117	9/16"	12"	.77

EXTENSION BARS

3/8" Female by 3/8" Male

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7175P	7/16"	3"	.16
7176P	7/16"	6"	.28

Extension Socket-Holding Parts

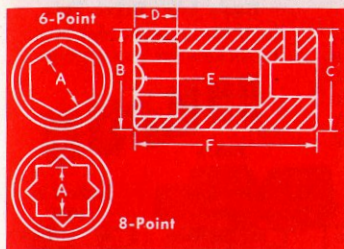
PART NO.	PART	
71003DD	Disc	Disc Spring Pellet
71003P	Pellet	
71003S	Spring	

For 3/8" Square Drive

Ball-Type Universal Socket Parts

SKT. NO.	SOCKET END	DRIVE END	PIN	HOLDING SPRING	SNAP RING
7273	7273A	7270PF	7270PN	7270SP	7270SR
7274	7274A	7270PF	7270PN	7270SP	7270SR
7275	7275A	7270PF	7270PN	7270SP	7270SR
7276	7276A	7270PF	7270PN	7270SP	7270SR
7277	7277A	7270PF	7270PN	7270SP	7270SR

1/2" SQUARE DRIVE POWER SOCKETS



No. 7470 Universal Joint

Ball-type. Length, 2 3/4". Wt., .38 Lb.
Parts: Female End—7470PF. Male End—7470PM. Pin—7470PN. Snap Ring—7470SR. Holding Spring—7470SP. Pellet—7470PP. Pellet Spring—7470PS.

HEX DRIVER-EXTENSIONS

1/2" Square by 7/16" Hexagon Drive

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7121	21/32"	2 3/4"	.17
7123	21/32"	5"	.38

1/2" Square by 5/8" Hexagon Drive

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7131	3/4"	2 3/4"	.25
7133	3/4"	5"	.52
7135	3/4"	8"	.89

EXTENSION BARS

1/2" Female by 1/2" Male

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7180P	21/32"	2"	.28
7181P	19/32"	5"	.47

Extension Socket-Holding Parts

PART NO.	PART	
7100 1/2DD	Disc	
7100 1/2P	Pellet	
7100 1/2S	Spring	

Disc Spring Pellet
For 1/2" Square Drive

Ball-Type Universal Socket Parts

SKT. NO.	SOCKET END	DRIVE END	PIN	HOLDING SPRING	SNAP RING
7474	7474A	7470PF	7470PN	7470SP	7470SR
7475	7475A	7470PF	7470PN	7470SP	7470SR
7476	7476A	7470PF	7470PN	7470SP	7470SR
7477	7477A	7470PF	7470PN	7470SP	7470SR
7478	7478A	7470PF	7470PN	7470SP	7470SR
7479	7479A	7480PF	7470PN	7470SP	7470SR

For Power Stud Remover and Setter, See Page 61.

NOTE: For STANDARD Nut and Bolt Sizes,
Corresponding to NOMINAL Socket Openings,
See Chart Opposite Page 80.

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7412H	3/8"	.610"	.885"	.281"	.562"	1 1/2"	.13
7414H	7/16"	.692"	.885"	.328"	.562"	1 1/2"	.14
7416H	1/2"	.773"	.947"	.375"	.562"	1 1/2"	.17
7418H	9/16"	.854"	.947"	.422"	.718"	1 1/2"	.17
7419H	19/32"	.897"	1.010"	.437"	.750"	1 1/2"	.19
7420H	5/8"	.941"	1.010"	.468"	.750"	1 1/2"	.17
7422H	11/16"	1.042"	1.042"	.515"	.750"	1 1/2"	.22
7424H	3/4"	1.135"	1.135"	.562"	.828"	1 1/2"	.26
7426H	13/16"	1.197"	1.197"	.609"	.828"	1 1/2"	.38
7428H	7/8"	1.291"	1.215"	.625"	.843"	1 1/2"	.31
7430H	15/16"	1.310"	1.385"	.687"	.875"	1 3/4"	.45
7432H	1"	1.310"	1.447"	.750"	1.000"	1 3/4"	.48
7434H	1 1/16"	1.373"	1.510"	.812"	1.250"	2"	.55
7436H	1 1/8"	1.435"	1.635"	.843"	1.250"	2"	.66
7438H	1 3/8"	1.517"	1.697"	.875"	1.250"	2"	.71
7440H	1 1/4"	1.558"	1.770"	.937"	1.250"	2"	.79

REGULAR LENGTH SOCKETS FOR SELF-TAPPING SCREWS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7416PK	1/2"	.770"	.947"	.281"	.562"	1 1/2"	.16
7418PK	9/16"	.850"	.947"	.296"	.781"	1 1/2"	.17

REG. LENGTH SOCKETS — DOUBLE SQUARE (8-PT.)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7412S	3/8"	.729"	.885"	.281"	.562"	1 1/2"	.16
7414S	7/16"	.823"	.947"	.328"	.562"	1 1/2"	.17
7416S	1/2"	.947"	.947"	.375"	.750"	1 1/2"	.21
7418S	9/16"	1.010"	1.010"	.422"	.750"	1 1/2"	.26
7420S	5/8"	1.135"	1.135"	.468"	.781"	1 1/2"	.29
7422S	11/16"	1.207"	1.207"	.515"	.812"	1 1/2"	.37
7424S	3/4"	1.322"	1.322"	.531"	.843"	1 1/2"	.44
7426S	13/16"	1.395"	1.395"	.609"	.843"	1 1/2"	.48
7428S	7/8"	1.518"	1.518"	.656"	.906"	1 1/2"	.38
7430S	15/16"	1.625"	1.625"	.703"	1.031"	1 3/4"	.58
7432S	1"	1.707"	1.707"	.750"	1.031"	1 3/4"	.60

DEEP LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7312H	3/8"	.619"	.885"	.281"	2.562"	3 1/4"	.33
7314H	7/16"	.697"	.885"	.328"	2.562"	3 3/4"	.33
7316H	1/2"	.781"	.947"	.375"	2.562"	3 3/4"	.31
7318H	9/16"	.859"	.947"	.437"	2.562"	3 3/4"	.37
7320H	5/8"	.946"	1.010"	.468"	2.562"	3 3/4"	.36
7322H	11/16"	1.042"	1.042"	.515"	2.562"	3 3/4"	.41
7324H	3/4"	1.135"	1.135"	.562"	2.562"	3 3/4"	.59
7326H	13/16"	1.135"	1.135"	.609"	2.562"	3 3/4"	.56
7328H	7/8"	1.197"	1.197"	.672"	2.562"	3 3/4"	.62
7330H	15/16"	1.291"	1.291"	.703"	2.750"	3 1/2"	.86
7332H	1"	1.385"	1.385"	.750"	2.750"	3 1/2"	.90
7334H	1 1/8"	1.510"	1.510"	.781"	2.750"	3 1/2"	1.00
7336H	1 1/4"	1.572"	1.572"	.843"	2.750"	3 1/2"	1.02

BALL-TYPE UNIVERSAL SOCKETS — HEXAGON (6-PT.)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7474	7/16"	.689"	.947"	.343"	.437"	2 1/2"	.35
7475	9/16"	.800"	.947"	.375"	.500"	2 1/2"	.35
7476	1/2"	.874"	.947"	.421"	.562"	2 1/2"	.36
7477	5/8"	.957"	.947"	.468"	.562"	2 1/2"	.37
7478	11/16"	1.022"	.947"	.515"	.562"	2 1/2"	.37
7479	3/4"	1.035"	.947"	.562"	.625"	2 1/4"	.36

1/2" SQ. DRIVE POWER SOCKET SETS



No. 7400A Package-Set

Developed as a merchandiser set for PROTO distributors, but ideal also for large garages and industrial plants that repair their vehicles. Includes power sockets in eight opening sizes and seven other useful tools, listed below. Wt., 10.0 Lbs.

Basic 1/2" Drive Sets

Each contains six highly useful sockets for power guns.



7400B

1/2" Drive Sockets

NO.	QUAN.	OPENING
7414H	3	7/16"
7416H	6	1/2"
7418H	6	9/16"
7420H	6	5/8"
7422H	4	11/16"
7424H	6	3/4"
7426H	3	13/16"
7428H	3	7/8"

Additional Items (1 Each)

NO.	DESCRIPTION
4515	Stud Remover & Setter, 1/2" Dr.
5239	Chevy Oil Pan Socket, 3/8" Dr.
5245	Chevy Oil Pan Socket, 3/8" Dr.
5254	Adapter, 1/2" Female, 3/8" Male
6522	Cadillac Connecting Rod Socket
6523	Ford V8 Connecting Rod Socket
7470	Heavy-Duty, Power-Type Universal Socket, 1/2" Drive

Sockets in 7400B

NO.	OPENING
7418H	9/16"
7420H	5/8"
7422H	11/16"
7424H	3/4"
7426H	13/16"
7428H	7/8"

Wt., 1.45 Lbs.

Sockets in 7400C

NO.	OPENING
7414H	7/16"
7416H	1/2"
7418H	9/16"
7420H	5/8"
7422H	11/16"
7424H	3/4"

Wt., 1.10 Lbs.

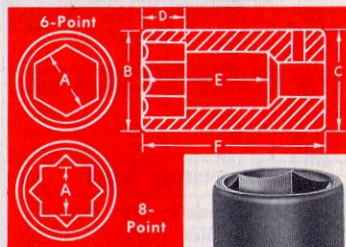
5/8" SQUARE DRIVE POWER SOCKETS

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7618H	9/16"	.870"	1.072"	.437"	.500"	1.387"	.18
7619H	19/32"	.910"	1.103"	.437"	.500"	1.387"	.24
7620H	5/8"	.960"	1.135"	.469"	.500"	1.387"	.22
7622H	11/16"	1.059"	1.197"	.515"	.750"	1.387"	.26
7624H	3/4"	1.260"	1.260"	.562"	.750"	1.387"	.28
7626H	13/16"	1.247"	1.291"	.609"	.750"	1.387"	.32
7628H	7/8"	1.291"	1.291"	.656"	1.032"	1.387"	.30
7629H	29/32"	1.322"	1.322"	.687"	1.032"	1.387"	.41
7630H	15/16"	1.385"	1.385"	.703"	1.250"	2"	.50
7632H	1"	1.447"	1.447"	.750"	1.250"	2"	.57
7634H	1 1/16"	1.522"	1.522"	.796"	1.250"	2"	.64
7636H	1 1/8"	1.635"	1.635"	.844"	1.250"	2"	.73
7638H	1 1/4"	1.697"	1.697"	.890"	1.250"	2"	.79
7640H	1 1/2"	1.785"	1.785"	.937"	1.250"	2"	.89
7642H	1 5/8"	1.885"	1.885"	.937"	1.250"	2"	.93
7644H	1 3/4"	1.947"	1.947"	1.032"	1.437"	2 1/4"	1.20
7646H	1 7/8"	2.010"	2.010"	1.062"	1.437"	2 1/4"	1.20
7648H	2"	2.087"	2.087"	1.125"	1.531"	2 3/8"	1.30

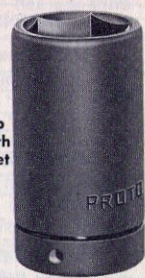
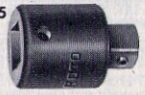
REGULAR LENGTH SOCKETS — DOUBLE SQUARE (8-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7618S	9/16"	1.072"	1.187"	.375"	.687"	1 1/2"	.31
7620S	5/8"	1.197"	1.260"	.406"	.718"	1 1/2"	.31
7622S	11/16"	1.260"	1.260"	.437"	.750"	1 1/2"	.40
7624S	3/4"	1.385"	1.385"	.468"	.781"	1 1/2"	.44
7626S	13/16"	1.510"	1.510"	.531"	.906"	1 5/8"	.50
7628S	7/8"	1.510"	1.510"	.593"	.906"	1 5/8"	.53
7630S	15/16"	1.635"	1.635"	.656"	1.000"	1 3/4"	.59
7632S	1"	1.760"	1.760"	.750"	1.032"	1 3/4"	.75
7634S	1 1/16"	1.822"	1.822"	.750"	1.187"	2"	1.00
7636S	1 1/8"	1.947"	1.947"	.750"	1.187"	2"	1.06



Deep Length Socket

Regular Length Socket

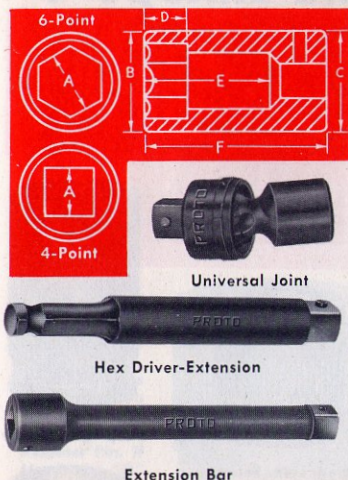
7655
7654 & 7656

Power Adapters

7654—Female, 1/2". Male, 5/8". Length, 1 3/4". Weight, .26 Lb.
 7655—Female, 5/8". Male, 1/2". Length, 1 7/8". Weight, .37 Lb.
 7656—Female, 5/8". Male, 3/4". Length, 2". Weight, .42 Lb.

†Can Be Used for Budd Wheels.

5/8" SQUARE DRIVE POWER SOCKETS



No. 7670 Universal Joint

Ball-type. Length, 3". Wt., .60 Lb.
Parts: Female End—7670PF. Male End—7670PM. Pin—7670PN. Snap Ring—7670SR. Holding Spring—7670SP. Pellet—7670PP. Pellet Spring—7670PS.

HEX DRIVER-EXTENSIONS

5/8" Square by 5/8" Hexagon Drive

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7151	13/16"	3"	.32
7153	13/16"	5"	.60
7155	13/16"	8"	1.04

5/8" Square by 3/4" Hexagon Drive

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7163	7/8"	3"	.40
7165	7/8"	6"	.88

EXTENSION BAR

5/8" Female by 5/8" Male

NO.	SHANK DIAM.	LENGTH	WT., LBS.
7185P	3/4"	7 1/2"	1.08

Extension Socket-Holding Parts

PART NO.	PART	
710054DD	Disc	Disc Spring Pellet For 5/8" Square Drive
710054P	Pellet	
710054S	Spring	

NOTE: For STANDARD Nut and Bolt Sizes,
Corresponding to NOMINAL Socket Openings,
See Chart Opposite Page 80.

REGULAR LENGTH SOCKET — SQUARE (4-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
†7626SS	13/16"	1.450"	1.510"	.531"	1.000"	2"	.64

DEEP LENGTH SOCKETS — HEXAGON (6-POINT)

7518H	9/16"	.885"	1.135"	.218"	2.250"	3 1/4"	.56
7520H	5/8"	1.010"	1.197"	.468"	2.250"	3 1/4"	.69
7522H	11/16"	1.135"	1.260"	.515"	2.250"	3 1/4"	.75
7524H	3/4"	1.197"	1.260"	.562"	2.250"	3 1/4"	.76
7526H	13/16"	1.260"	1.260"	.609"	2.250"	3 1/4"	.77
7528H	7/8"	1.292"	1.292"	.656"	2.375"	3 1/4"	.78
7530H	15/16"	1.385"	1.385"	.703"	2.500"	3 1/2"	.94
7532H	1"	1.447"	1.447"	.750"	2.625"	3 1/2"	1.06
7534H	1 1/16"	1.522"	1.522"	.796"	2.718"	3 1/2"	1.06
7536H	1 1/8"	1.572"	1.572"	.843"	2.687"	3 1/2"	1.26
7538H	1 1/4"	1.697"	1.697"	.875"	2.656"	3 1/2"	1.36
7540H	1 1/2"	1.785"	1.785"	.937"	2.656"	3 1/2"	1.50
7542H	1 5/8"	1.885"	1.885"	.937"	2.656"	3 1/2"	1.66
7544H	1 3/4"	1.947"	1.947"	1.031"	2.625"	3 1/2"	1.77
7546H	1 7/8"	2.010"	2.010"	1.078"	2.625"	3 1/2"	1.80
†7548H	1 1/2"	2.087"	2.087"	1.125"	2.593"	3 1/2"	1.88

3/4" SQUARE DRIVE POWER SOCKETS

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
7820H	5/8"	1.093"	1.510"	.468"	.750"	1 3/4"	.45
7824H	3/4"	1.125"	1.510"	.562"	.750"	1 3/4"	.42
7826H	13/16"	1.372"	1.510"	.609"	.875"	1 7/8"	.44
7828H	7/8"	1.447"	1.510"	.625"	1.000"	2"	.41
7830H	15/16"	1.510"	1.510"	.687"	1.062"	2"	.46
7831H	31/32"	1.510"	1.510"	.687"	1.062"	2"	.51
7832H	1"	1.635"	1.635"	.750"	1.125"	2 1/8"	.51
7834H	1 1/16"	1.697"	1.697"	.812"	1.125"	2 1/8"	.67
7836H	1 1/8"	1.785"	1.628"	.843"	1.218"	2 1/8"	.71
7838H	1 1/4"	1.700"	1.822"	.875"	1.281"	2 1/4"	.82
7840H	1 1/2"	1.763"	1.885"	.937"	1.375"	2 1/4"	.88
7844H	1 3/8"	1.872"	2.072"	1.031"	1.437"	2 5/8"	1.06
7848H	1 1/2"	1.935"	2.135"	1.125"	1.437"	2 3/4"	1.30

REGULAR LENGTH SOCKET — SQUARE (4-POINT)

†7826S	13/16"	1.635"	1.635"	.531"	.969"	2"	.64
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DEEP LENGTH SOCKETS — HEXAGON (6-POINT)

†7748H	1 1/2"	2.135"	2.135"	1.125"	2.500"	3 1/2"	1.92
†7748HL	1 1/2"	2.260"	2.260"	1.125"	3.750"	5"	3.5

DEEP LENGTH SOCKET — SQUARE (4-POINT)

†7726SL	13/16"	1.635"	1.635"	.531"	2.281"	3 1/2"	1.46
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†Designed Especially for Budd Wheels.

‡Can Be Used for Budd Wheels.

3/4" SQUARE DRIVE IMPACT SOCKETS

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT., LBS.
07509	9/16"	1.010"	1.635"	.562"	.750"	1 7/8"	.67
07510	5/8"	1.093"	1.635"	.562"	.750"	1 7/8"	.67
07511	11/16"	1.156"	1.635"	.562"	.750"	1 7/8"	.66
07512	3/4"	1.260"	1.635"	.625"	1.000"	1 7/8"	.68
07513	13/16"	1.385"	1.635"	.625"	1.000"	1 7/8"	.62
07514	7/8"	1.510"	1.635"	.687"	1.000"	2"	.70
07515	15/16"	1.572"	1.635"	.687"	1.000"	2"	.86
07516	1"	1.635"	1.760"	.687"	1.062"	2 1/16"	1.00
07517	1 1/16"	1.697"	1.760"	.750"	1.062"	2 1/16"	1.14
07518	1 1/8"	1.760"	1.760"	.750"	1.125"	2 1/8"	1.28
07519	1 1/16"	1.885"	1.885"	.750"	1.125"	2 1/8"	1.32
07520	1 1/4"	2.010"	2.010"	.750"	1.125"	2 1/8"	1.36
07521	1 3/16"	2.072"	2.072"	.750"	1.125"	2 1/8"	1.32
07522	1 3/8"	2.135"	2.135"	.812"	1.125"	2 1/4"	1.62
07523	1 7/16"	2.260"	2.260"	.812"	1.156"	2 5/16"	1.56
†07524	1 1/2"	2.322"	2.322"	.875"	1.156"	2 5/16"	1.62

REGULAR LENGTH SOCKET — SQUARE (4-POINT)

†07513SS	13/16"	1.697"	1.697"	.537"	1.437"	2 7/16"	.82
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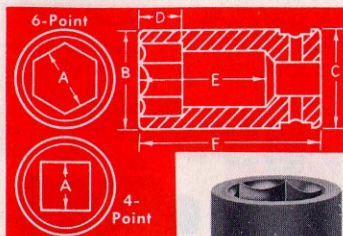
DEEP LENGTH SOCKETS — HEXAGON (6-POINT)

07509L	9/16"	1.010"	1.635"	.562"	1.625"	3"	1.19
07510L	5/8"	1.103"	1.635"	.562"	1.625"	3"	1.20
07511L	11/16"	1.166"	1.635"	.562"	1.625"	3"	1.21
07512L	3/4"	1.260"	1.635"	.625"	1.625"	3"	1.22
07513L	13/16"	1.375"	1.635"	.625"	1.625"	3"	1.23
07514L	7/8"	1.510"	1.635"	.687"	1.625"	3"	1.24
07515L	15/16"	1.572"	1.760"	.687"	1.625"	3"	1.25
07516L	1"	1.635"	1.760"	.687"	2.000"	3"	1.26
07517L	1 1/16"	1.697"	1.760"	.750"	2.000"	3"	1.32
07518L	1 1/8"	1.760"	1.760"	.750"	2.000"	3"	1.41
07519L	1 1/16"	1.885"	1.885"	.750"	2.187"	3 1/4"	1.60
07520L	1 1/4"	2.010"	2.010"	.750"	2.187"	3 1/4"	1.81
07521L	1 3/16"	2.072"	2.072"	.750"	2.187"	3 1/4"	1.85
07523L	1 7/16"	2.260"	2.260"	.812"	2.375"	3 1/2"	2.5
†07524L	1 1/2"	2.322"	2.322"	.875"	2.375"	3 1/2"	2.6

DEEP LENGTH SOCKET — SQUARE (4-POINT)

†07513SL	13/16"	1.697"	1.697"	.537"	3.000"	4"	1.98
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†Designed for Budd Wheels. ‡Suitable for Budd Wheels.



Reg. Lgth. Socket



Deep Lgth. Socket

Impact Sockets and Extension Bar Come with a Flat Band and Retainer Pin. If a Neoprene "O" Ring Is Desired, Order Separately, Specifying the Socket or Extension Bar Number.



Extension Bar

EXTENSION BAR

3/4" Female by 3/4" Male

NO.	SHANK DIAM.	LENGTH	WT., LBS.
07567	1"	7"	1.92

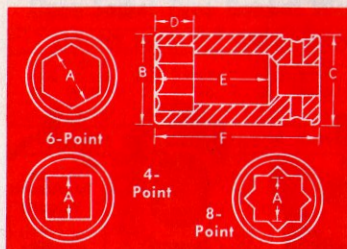
NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.

BUDD WHEEL POWER-IMPACT SOCKETS

NO.	NOMINAL OPENING	DRIVE SIZE	TYPE SOCKET	TOTAL LGTH.	WT., LBS.
7626SS	13/16" Sq.	5/8"	Power	2"	.64
7726SL	13/16" Sq.	3/4"	Power	3 1/2"	1.46
7826S	13/16" Sq.	3/4"	Power	2"	.64
07513SL	13/16" Sq.	3/4"	Impact	4"	1.98
07513SS	13/16" Sq.	3/4"	Impact	2 1/8"	.82
10013SS	13/16" Sq.	1"	Impact	2 3/8"	1.16
7748HL	1 1/2" Hex	3/4"	Power	5"	3.5
07524L	1 1/2" Hex	3/4"	Impact	3 1/2"	2.6
10024L	1 1/2" Hex	1"	Impact	3 1/2"	2.4

Specially designed PROTO sockets with 13/16" square and 1 1/2" hex openings speed the job of changing Budd wheels. They are available in 5/8" square drive power, 3/4" power, 3/4" impact and 1" impact types. Sockets 7726SL and 07513SL have a stop in the square opening base at the correct depth to prevent damage to inner nut threads. These two sockets, and 7748HL, 07524L and 10024L, are extra deep to clear hubs without using extensions.

1" SQUARE DRIVE IMPACT SOCKETS



Regular Length Socket

Impact Sockets and Extension Bar Come with a Flat Band and Retainer Pin. If Neoprene "O" Ring Is Desired, Order Separately, Specifying the Socket or Extension Bar Number.

Pin

Band

Deep Length Socket



Extension Bar



EXTENSION BAR

1" Female by 1" Male

NO.	SHANK DIAM.	LENGTH	WT., LBS.
10607	1 1/32"	7 1/2"	3.7

REGULAR LENGTH SOCKETS — HEXAGON (6-POINT)

NO.	NOM. OPEN. SIZE(A)	OUTSIDE DIAM. NUT END(B)	OUTSIDE DIAM. DRIVE END(C)	OPEN. DEPTH (D)	BOLT DEPTH (E)	TOTAL LENGTH (F)	WT. LBS.
10012	3/4"	1.437"	2.135"	.593"	1.000"	2 1/16"	.96
10014	7/8"	1.531"	2.135"	.656"	1.000"	2 3/16"	1.04
10015	15/16"	1.593"	2.135"	.750"	1.125"	2 3/8"	1.02
10016	1"	1.687"	2.135"	.750"	1.250"	2 3/4"	1.06
10017	1 1/16"	1.760"	2.135"	.875"	1.250"	2 3/4"	1.28
†10018	1 1/8"	1.820"	2.135"	.875"	1.250"	2 3/4"	1.30
10019	1 1/16"	1.885"	2.135"	.875"	1.250"	2 3/4"	1.28
10020	1 1/4"	2.135"	2.135"	.937"	1.375"	2 1/2"	1.23
10021	1 3/8"	2.135"	2.135"	1.000"	1.500"	2 3/4"	1.30
10022	1 3/8"	2.135"	2.135"	1.031"	1.531"	2 3/4"	1.46
10023	1 3/8"	2.260"	2.260"	1.062"	1.531"	2 11/16"	1.46
†10024	1 3/8"	2.322"	2.322"	1.125"	1.531"	2 3/4"	1.46
10025	1 3/8"	2.385"	2.385"	1.125"	1.562"	2 13/16"	1.56
10026	1 3/8"	2.447"	2.447"	1.125"	1.562"	2 7/8"	1.78
10027	1 11/16"	2.572"	2.572"	1.125"	1.812"	2 15/16"	1.96
10028	1 3/4"	2.635"	2.635"	1.250"	1.750"	3"	2.0
10029	1 3/8"	2.760"	2.760"	1.312"	1.812"	3 1/16"	2.5
10030	1 3/8"	2.760"	2.760"	1.312"	1.875"	3 1/8"	2.3
10031	1 15/16"	2.760"	2.895"	1.312"	1.875"	3 3/8"	2.7
10032	2"	2.760"	3.020"	1.437"	1.875"	3 1/4"	3.2
10033	2 1/16"	2.760"	3.020"	1.437"	1.875"	3 3/8"	3.2
10034	2 1/8"	2.760"	3.145"	1.500"	1.875"	3 3/8"	3.4
10035	2 3/16"	2.760"	3.270"	1.562"	1.921"	3 7/16"	4.0
10036	2 1/4"	2.760"	3.270"	1.562"	2.000"	3 1/2"	4.1
10037	2 3/8"	2.760"	3.395"	1.562"	2.000"	3 3/8"	4.2
10038	2 3/8"	2.760"	3.520"	1.562"	2.000"	3 5/8"	4.2
10039	2 3/16"	3.510"	2.390"	1.562"	2.000"	3 5/8"	4.5
10040	2 1/2"	3.635"	2.390"	1.562"	2.375"	4"	4.9
10041	2 3/16"	3.760"	2.390"	1.562"	2.375"	4"	5.4
10042	2 3/8"	3.760"	2.390"	1.562"	2.375"	4"	5.3
10043	2 11/16"	3.885"	2.390"	1.562"	2.625"	4 1/4"	6.0
10044	2 3/4"	3.885"	2.390"	1.562"	2.625"	4 1/4"	5.8
10045	2 3/8"	4.010"	2.390"	1.625"	2.625"	4 3/8"	6.9
10046	2 7/8"	4.010"	2.390"	1.625"	2.625"	4 3/8"	6.5
10047	2 15/16"	4.135"	2.390"	1.687"	2.625"	4 5/8"	7.7
10048	3"	4.260"	2.390"	1.750"	2.625"	4 5/8"	7.9
10050	3 1/8"	4.385"	2.390"	1.750"	2.625"	4 3/4"	8.3

REGULAR LENGTH SOCKET — SQUARE (4-POINT)

†10013SS	1 3/16"	1.947"	2.135"	.609"	.875"	2 5/16"	1.16
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REGULAR LENGTH SOCKETS — DOUBLE SQUARE (8-POINT)

10018S	1 1/8"	2.260"	2.260"	.937"	1.250"	2 1/2"	1.56
10020S	1 1/4"	2.385"	2.385"	.937"	1.312"	2 9/16"	1.80
10021S	1 3/8"	2.510"	2.510"	1.000"	1.531"	2 3/8"	2.2
10023S	1 3/4"	2.697"	2.697"	1.062"	1.625"	2 3/4"	2.3

DEEP LENGTH SOCKETS — HEXAGON (6-POINT)

10015L	1 1/8"	1.510"	2.135"	.750"	2.000"	3 1/2"	2.1
10017L	1 1/16"	1.760"	2.135"	.875"	2.250"	3 1/4"	2.3
10020L	1 1/4"	2.135"	2.135"	.937"	2.250"	3 1/2"	2.2
†10024L	1 3/8"	2.322"	2.322"	1.125"	2.250"	3 1/2"	2.4

†Designed for Budd Wheels. ‡Suitable for Budd Wheels.

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.

PROTO-TAC RATCHETING WRENCHES

Federal Specs.: GGG-W-646. Open Ratchet Heads — Type I, Class 1, Style A. Rigid Heads — Type I, Class 2, Style A. Open 500 Series Sockets — Type II, Class 1, Style B, Form A. Other Open Sockets — Type II, Class 1, Style A, Form A. Turnbuckle Adapters — Type II, Class 2, Style B. Internal Wrenching Adapters — Type II, Class 3, Form A. Standard Socket Adapters — Type II, Class 2, Style A. Crowfoot Ratchet Wrenches — Type I, Class 1, Style B, Form A.

3 Easy Steps



Over Tubing

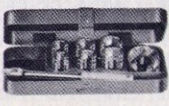


Over Fitting



Now Ratchet

By doing "impossible" jobs on tubing, conduits, pipe, studs, etc., TAC patented tools save time, and cut costs in all industries. They work over tubing, in very close quarters, on hidden nuts, and in recesses.



No. 500S Socket Set



Open type sockets slip over tubing and down on fitting. Compact heads and 5-7½° ratcheting arc permit use in tight places. Made from tough steels for great strength.

Non-Ratcheting Rigid Head
Holds work in fixed position.



Internal Wrenching Adapter
For Allen-type screws.



Turnbuckle Adapter

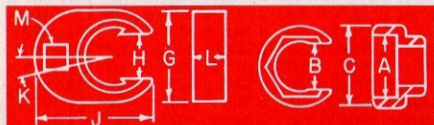


Screwdriver Adapter
Forms high torque ratchet screw-driver.



Standard Sockets Adapter

Open Socket Type Ratchet Wrenches—Items for ½" O.D. Max. Tube Size



RATCHET HEAD—¼" SQUARE DRIVE (M)

CAT. ALG. NO.	TUBE CLEAR-ANCE (H)	THICK-NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	RATCH-ETING ARC (K)	WT., LBS.	PART NO.
500H	.531"	.430"	1.380"	1.820"	7½°	.14	500H

OPEN SOCKETS—HEXAGON (2-POINT)

CAT. ALG. NO.	NOM. OPEN. SIZE (A)	TUBE CLEAR-ANCE (B)	OUTSD. DIAMETER (C)	TORQ. INCH-LBS.	WT., LBS.	PART NO.
500⅜	⅜"	.250"	.750"	200	.05	16012
5007/16	7/16"	.312"	.750"	200	.05	16014
5009/16	9/16"	.375"	.812"	240	.05	16016
5005/8	5/8"	.375"	.875"	280	.06	16018
5005/8	5/8"	.437"	.937"	380	.06	16020
50011/16	11/16"	.437"	1.000"	480	.07	16022
5003/4	3/4"	.531"	1.125"	500	.08	16024

For ¼" Square Drive Handles, Universal Joint and Torque Wrenches, See Pages 33 and 67.

No. 500S Socket Set (Part No. 500)

Includes 500H ratchet head, 4766 hinge handle and 6 sockets—500⅜ to 50011/16—in 500B box. Wt., .30 Lb.

TURNBUCKLE ADAPTER

CATALOG NO.	DESCRIPTION	LBS.	PART NO.
500TBA	AN155-80 to 461	.06	500TBA

INTERNAL WRENCHING ADAPTERS

500X3/16	3/16" Hex. Bit	.05	50006X
500X7/32	7/32" Hex. Bit	.05	50007X
500X1/4	1/4" Hex. Bit	.05	50008X
500X5/16	5/16" Hex. Bit	.06	50010X
500X3/8	3/8" Hex. Bit	.06	50012X

STANDARD SOCKETS ADAPTERS

500A1/4	1/4" Drive Sks.	.05	50008A
500A3/8	3/8" Drive Sks.	.06	50012A

SCREWDRIVER ADAPTERS

500X1/4S4	3/16" Bit Width	.05	50008XS4
500X1/4S5	1/8" Bit Width	.05	50008XS5
500X1/4S6	1/4" Bit Width	.06	50008XS6
500X1/4S8	5/16" Bit Width	.06	50008XS8
500X1/4S10	3/8" Bit Width	.06	50008XS10
500X1/4S12	7/8" Bit Width	.06	50008XS12
500X1/4P1	Phillips #1 Bit	.05	50008XP1
500X1/4P2	Phillips #2 Bit	.05	50008XP2
500X1/4P3	Phillips #3 Bit	.05	50008XP3

RIGID HEAD

500GH	3/8"-3/4" Sockets	.05	500GH
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STEEL SOCKET SET BOX

500B	7"x3 1/16"x1 1/16"	.65	500B
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PROTO-TAC RATCHETING WRENCHES

Open Socket Type Ratchet Wrenches—Items for 5/8" O.D. Max. Tube Size

RATCHET HEAD—3/8" SQUARE DRIVE (M)							
CAT. ALOG NO.	TUBE CLEAR-ANCE(H)	THICK-NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	RATCH-ETING ARC(K)	WT. LBS.	PART NO.
625AC	.656"	.520"	1.650"	2.210"	7 1/2°	.26	625H
OPEN SOCKETS—HEXAGON (6-POINT)							
CATALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR-ANCE(B)	OUTSD. DIAMETER(C)	TORQ. INCH. LBS.	WT. LBS.		PART NO.
6253/4	3/4"	.562"	1.125"	720	.10		20024
62513/16	13/16"	.562"	1.187"	780	.11		20026
6257/8	7/8"	.687"	1.250"	840	.12		20028
62515/16	15/16"	.687"	1.312"	920	.13		20030
625-1"	1"	.687"	1.375"	980	.15		20100
625-1 1/16	1 1/16"	.687"	1.437"	1040	.16		20102
†625-1 1/16D	1 1/16"	.687"	1.468"	1100	.20		20102D
625-1 1/8	1 1/8"	.687"	1.500"	1200	.17		20104
†625-1 1/8R	1 1/8"	.656"	1.562"	1200	.29		20104R

†Diesel Socket. †Refrigeration Socket.

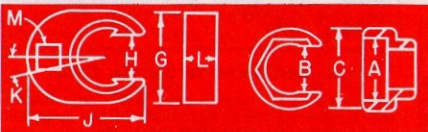
For 3/8" Square Drive Handles, Universal Joint and Torque Wrenches, See Pages 35, 36 and 67.

No. 625S Socket Set (Part No. 625)

Includes 625AC ratchet head, 52-65 hinge handle and 6 sockets—6253/4 to 625-1 1/8 — in 625B box. Wt., 2.3 Lbs.



Open Socket Type Ratchet Wrenches—Items for 7/8" O.D. Max. Tube Size



RATCHET HEAD—3/8" SQUARE DRIVE (M)							
CAT. ALOG NO.	TUBE CLEAR-ANCE(H)	THICK-NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	RATCH-ETING ARC(K)	WT. LBS.	PART NO.
875DF	.906"	.644"	2.150"	2.710"	7 1/2°	.48	875H
OPEN SOCKETS—HEXAGON (6-POINT)							
CAT. ALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR-ANCE(B)	OUTSD. DIAMETER(C)	TORQ. INCH. LBS.	WT. LBS.		PART NO.
875-1"	1"	.687"	1.687"	980	.22		28100
875-1 1/16	1 1/16"	.687"	1.750"	1040	.24		28102
875-1 1/8	1 1/8"	.812"	1.834"	1175	.24		28104
875-1 3/8	1 3/8"	.812"	1.834"	1250	.26		28106
875-1 1/2	1 1/2"	.812"	1.853"	1350	.27		28108
875-1 5/8	1 5/8"	.875"	1.840"	1425	.30		28110
875-1 3/4	1 3/4"	.875"	1.912"	1500	.31		28112
875-1 7/8	1 7/8"	.906"	1.985"	1530	.34		28114

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Wrench Openings, See Chart Opposite Page 80.

INTERNAL WRENCHING ADAPTERS			
CATALOG NO.	DESCRIPTION	LBS.	PART NO.
625X3/8	3/8" Hex. Bit	.12	62512X
625X7/16	7/16" Hex. Bit	.12	62514X
625X1/2	1/2" Hex. Bit	.13	62516X
625X9/16	9/16" Hex. Bit	.15	62518X
625X5/8	5/8" Hex. Bit	.17	62520X
STANDARD SOCKETS ADAPTERS			
625A3/8	3/8" Drive Skts.	.12	62512A
625A1/2	1/2" Drive Skts.	.14	62516A
SCREWDRIVER ADAPTERS			
625X1/4S4	1/4" Bit Width	.10	62508XS4
625X1/4S5	5/16" Bit Width	.10	62508XS5
625X1/4S6	3/8" Bit Width	.12	62508XS6
625X1/4S8	1/2" Bit Width	.12	62508XS8
625X1/4S10	5/8" Bit Width	.12	62508XS10
625X1/4S12	3/4" Bit Width	.12	62508XS12
625X1/4P1	Phillips #1 Bit	.12	62508XP1
625X1/4P2	Phillips #2 Bit	.12	62508XP2
625X7/16P2	Phillips #2 Bit	.15	62514XP2
625X1/4P3	Phillips #3 Bit	.16	62508XP3
625X7/16P3	Phillips #3 Bit	.17	62514XP3
625X7/16P4	Phillips #4 Bit	.17	62514XP4
RIGID HEAD			
625GH	3/4"-1 1/8" Sockets	.12	625GH
STEEL SOCKET SET BOX			
625B	10 1/2"x3"x1 1/2"	.80	625B

TURNBUCKLE ADAPTER			
CATALOG NO.	DESCRIPTION	LBS.	PART NO.
875TBA	AN155-80 to 175	.10	875TBA
INTERNAL WRENCHING ADAPTERS			
875X9/16	9/16" Hex. Bit	.25	87518X
875X5/8	5/8" Hex. Bit	.26	87520X
875X3/4	3/4" Hex. Bit	.30	87524X
875X1"	1" Hex Bit	.37	87532X
STANDARD SOCKETS ADAPTER			
875A1/2	1/2" Drive Skts.	.22	87516A
RIGID HEAD			
875GH	1"-1 1/8" Sockets	.16	875GH
STEEL SOCKET SET BOX			
875B	11 1/4"x3 3/4"x1 7/8"	2.1	875B

For 3/8" Square Drive Handles, Universal Joint and Torque Wrenches, See Pages 35, 36 and 67.

No. 875S Socket Set (Part No. 875)

Includes 875DF ratchet head, 5265 hinge handle and 6 sockets—875-1 1/8 to 875-1 7/8—in 875B box. Wt., 4.2 Lbs.

PROTO-TAC RATCHETING WRENCHES

Open Socket Type Ratcheting Wrenches—Items for 1 3/8" O.D. Max. Tube Size



RATCHET HEAD—1/2" SQUARE DRIVE (M)

CAT- ALOG NO.	TUBE CLEAR- ANCE(H)	THICK- NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	WT. LBS.	PART NO.
1375GM	1.406"	.645"	2.750"	3.470"	.70	1375H

7 1/2" Ratcheting Arc (K). For 1/2" Dr. Handles, Univ. Joint & Torquers, See Pages 38, 39 & 67.

No. 1375S Socket Set (Part No. 1375)

Includes 1375GM ratchet head, 5467 hinge handle and 14 sockets—1375-1 1/4 to 1375-2 1/8—in 1375B steel box (15 1/4"x7"x2"). Wt., 12 Lbs.

OPEN SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR- ANCE(B)	OUTSD. DIAM- ETER(C)	TORQ. INCH- LBS.	WT. LBS.	PART NO.
1375-1 1/4	1 1/4"	.812"	2.100"	1500	.30	121208
1375-1 5/16	1 5/16"	.875"	2.150"	1500	.33	121210
1375-1 3/8	1 3/8"	.875"	2.200"	1500	.36	121212
1375-1 7/16	1 7/16"	1.031"	2.260"	1575	.36	121214
1375-1 1/2	1 1/2"	1.062"	2.270"	1650	.40	121216
1375-1 9/16	1 9/16"	1.093"	2.280"	1730	.42	121218
1375-1 5/8	1 5/8"	1.125"	2.290"	1795	.42	121220
1375-1 11/16	1 11/16"	1.156"	2.350"	1860	.44	121222
1375-1 3/4	1 3/4"	1.187"	2.347"	1940	.42	121224
1375-1 13/16	1 13/16"	1.218"	2.418"	2025	.48	121226
1375-1 7/8	1 7/8"	1.250"	2.491"	2100	.54	121228
1375-1 15/16	1 15/16"	1.281"	2.563"	2160	.50	121230
1375-2	2"	1.344"	2.635"	2250	.55	122200
1375-2 1/8	2 1/8"	1.406"	2.768"	2350	.57	122204

Open Socket Type Ratcheting Wrenches—Items for 2 1/16" O.D. Max. Tube Size

RATCHET HEAD—1/2" SQUARE DRIVE (M)

CAT- ALOG NO.	TUBE CLEAR- ANCE(H)	THICK- NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	WT. LBS.	PART NO.
2062NT	2.094"	.710"	3.900"	4.630"	1.42	2062H

6" Ratcheting Arc (K).

OPEN SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR- ANCE(B)	OUTSD. DIAM- ETER(C)	TORQ. INCH- LBS.	WT. LBS.	PART NO.
2062-2 1/16	2 1/16"	1.437"	3.020"	2300	.65	202202
2062-2 1/8	2 1/8"	1.500"	3.050"	2360	.68	202204
2062-2 3/16	2 3/16"	1.562"	3.100"	2430	.70	202206
2062-2 1/4	2 1/4"	1.625"	3.224"	2500	.65	202208
2062-2 5/16	2 5/16"	1.625"	3.297"	2560	.68	202210
2062-2 3/8	2 3/8"	1.687"	3.068"	2620	.73	202212
2062-2 7/16	2 7/16"	1.750"	3.140"	2680	.76	202214
2062-2 1/2	2 1/2"	1.812"	3.213"	2750	.82	202216

OPEN SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR- ANCE(B)	OUTSD. DIAM- ETER(C)	TORQ. INCH- LBS.	WT. LBS.	PART NO.
2062-2 9/16	2 9/16"	1.812"	3.284"	2830	.90	202218
2062-2 5/8	2 5/8"	1.875"	3.357"	2890	.92	202220
2062-2 11/16	2 11/16"	1.937"	3.428"	2950	.94	202222
2062-2 3/4	2 3/4"	2.000"	3.501"	3010	1.08	202224
2062-2 13/16	2 13/16"	2.000"	3.572"	3080	1.00	202226
2062-2 7/8	2 7/8"	2.062"	3.646"	3140	1.04	202228
2062-2 15/16	2 15/16"	2.062"	3.717"	3200	1.08	202230
2062-3	3"	2.062"	3.790"	3260	1.12	202230
2062-3 1/16	3 1/16"	2.062"	3.862"	3320	1.20	202232
2062-3 1/8	3 1/8"	2.062"	3.934"	3400	1.26	202234

No. 2062S Socket Set (Part No. 2062)

Includes 2062NT ratchet head, 5467 hinge handle and 18 sockets—2062-2 1/16 to 2062-3 1/8—in 2062B steel box (17 3/4"x12 1/2"x2 3/8"). Wt., 28 Lbs.

Open Socket Type Ratcheting Wrenches—Items for 2 3/4" O.D. Max. Tube Size

RATCHET HEAD—1/2" SQUARE DRIVE (M)

CAT- ALOG NO.	TUBE CLEAR- ANCE(H)	THICK- NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	WT. LBS.	PART NO.
2781VZ	2.812"	.770"	4.620"	5.380"	1.86	2781H

5" Ratcheting Arc (K).

OPEN SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR- ANCE(B)	OUTSD. DIAM- ETER(C)	TORQ. INCH- LBS.	WT. LBS.	PART NO.
2781-3 1/16	3 1/16"	2.062"	3.862"	3320	1.42	225302
2781-3 1/8	3 1/8"	2.093"	3.934"	3350	1.34	225304
2781-3 3/16	3 3/16"	2.218"	4.007"	3380	1.42	225306
2781-3 1/4	3 1/4"	2.218"	4.079"	3410	1.70	225308
2781-3 5/16	3 5/16"	2.218"	4.151"	3440	1.68	225310

OPEN SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	TUBE CLEAR- ANCE(B)	OUTSD. DIAM- ETER(C)	TORQ. INCH- LBS.	WT. LBS.	PART NO.
2781-3 3/8	3 3/8"	2.343"	4.223"	3470	1.60	225312
2781-3 7/16	3 7/16"	2.343"	4.295"	3500	1.75	225314
2781-3 1/2	3 1/2"	2.343"	4.368"	3530	1.83	225316
2781-3 9/16	3 9/16"	2.531"	4.440"	3560	1.74	225318
2781-3 5/8	3 5/8"	2.531"	4.512"	3590	1.90	225320
2781-3 11/16	3 11/16"	2.640"	4.584"	3620	1.80	225322
2781-3 3/4	3 3/4"	2.640"	4.656"	3650	2.00	225324
2781-3 13/16	3 13/16"	2.812"	4.729"	3680	1.80	225326
2781-3 7/8	3 7/8"	2.812"	4.800"	3710	2.2	225328
2781-3 15/16	3 15/16"	2.812"	4.873"	3730	2.2	225330
2781-4	4"	2.812"	4.945"	3750	2.2	225400

For Standard Sizes and Nominal Openings, See Opp. Page 80.

PROTO-TAC RATCHETING WRENCHES

Closed Socket Type Ratchet Wrenches



"Life Saver" ratchets use closed wall sockets. Because of centerless ratchet head, they drop down over spark plugs and any length of studs, bolts, etc., with no hindrance to efficient action.

RATCHET HEADS—For .678" Top Diam. Sockets

CAT. ALOG NO.	THICK- NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	RATCH- ETING ARC(K)	WT. LBS.	PART NO.
†500CL	.430"	1.380"	1.820"	7 1/2°	.16	500HCL
†502	.430"	1.343"	1.875"	7 1/2°	.16	502HCL

†1/4" Drive(M). †3/8" Drive(M). Stamped Type.

CLOSED SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	OUTSD. DIAMETER(C)	TORQ. INCH-LBS.	WT. LBS.	PART NO.
5003/16CL	3/16"	.750"	1000	.05	16012CL
5007/16CL	7/16"	.750"	1000	.05	16014CL
5001/2CL	1/2"	.812"	1000	.06	16016CL
5009/16CL	9/16"	.875"	1000	.07	16018CL
5005/8CL	5/8"	.937"	1000	.08	16020CL
50011/16CL	11/16"	1.000"	1000	.09	16022CL

No. 500CS Socket Set (Part No. 500CL)

Includes 500CL head, 4766 handle & 6 sockets—5003/16CL to 11/16CL—in 500B box. Wt., 1.47 Lbs.

RATCHET HEAD—3/8" Dr.—For .926" Top D. Skts.

CAT. ALOG NO.	THICK- NESS (L)	WIDTH (G)	TOTAL LENGTH (J)	RATCH- ETING ARC(K)	WT. LBS.	PART NO.
625ACCL	.520"	1.650"	2.125"	7 1/2°	.24	625HCL

CLOSED SOCKETS—HEXAGON (6-POINT)

CATALOG NO.	NOM. OPEN. SIZE(A)	OUTSD. DIAMETER(C)	TORQ. INCH-LBS.	WT. LBS.	PART NO.
6251/2CL	1/2"	1.000"	2400	.10	20016CL
6259/16CL	9/16"	1.000"	2400	.10	20018CL
6255/8CL	5/8"	1.000"	2400	.10	20020CL
62511/16CL	11/16"	1.000"	2400	.10	20022CL
6253/4CL	3/4"	1.125"	2400	.12	20024CL
62513/16CL	13/16"	1.187"	2400	.13	20026CL
6257/8CL	7/8"	1.250"	2400	.15	20028CL
62515/16CL	15/16"	1.312"	2400	.17	20030CL
625-1CL	1"	1.375"	2400	.19	20100CL
625-11/16CL	11/16"	1.437"	2400	.20	20102CL

No. 625CS Socket Set (Part No. 625CL)

Includes 625ACCL head, 5265 handle & 6 skts.—6253/4CL to 11/16CL—in 625B box. Wt., 2.6 Lbs.

Crowfoot Type Ratchet Wrenches



Big time savers. Each complete with ratcheting mechanism and hex. head for one size fitting. Thin head—.302"-500"(L) and small ratcheting arc—5°-7 1/2°(K) permit use in very tight places.

CAT. ALOG NO.	NOM. OPEN. SIZE(A)	DRIVE SIZE (M)	TUBE CLEAR- ANCE(H)	WIDTH (G)	TOTAL LENGTH (J)	TORQ. INCH-LBS.	WT. LBS.
9006	3/8"	1/4"	.380"	1.380"	1.820"	150	.11
9007	7/16"	3/4"	.443"	1.380"	1.820"	180	.11
9008	1 1/16"	1 1/4"	.506"	1.380"	1.820"	200	.10
9009	9/16"	3/8"	.570"	1.630"	2.200"	225	.12
9010	5/8"	3/8"	.635"	1.630"	2.200"	380	.16
9011	1 1/16"	3/8"	.700"	1.933"	2.433"	420	.22
9012	3/4"	3/8"	.760"	2.053"	2.593"	460	.26
9013	13/16"	3/8"	.826"	2.173"	2.733"	520	.30
9014	7/8"	3/8"	.890"	2.301"	2.901"	675	.37
9015	15/16"	3/8"	.956"	2.421"	3.021"	730	.41
9016	1 1/16"	3/8"	1.020"	2.561"	3.161"	840	.46
9017	1 1/8"	3/8"	1.080"	2.685"	3.285"	930	.50
9018	1 1/4"	3/8"	1.146"	2.685"	3.285"	930	.50
9019	1 1/2"	3/8"	1.210"	2.907"	3.407"	970	.60
9020	1 5/8"	3/8"	1.270"	2.807"	3.407"	970	.58
9021	1 3/4"	1/2"	1.336"	2.987"	3.687"	1030	.70
9022	1 7/8"	1/2"	1.396"	2.987"	3.687"	1030	.70
9023	1 9/16"	1/2"	1.460"	3.107"	3.807"	1100	.72
9024	1 11/16"	1/2"	1.532"	3.107"	3.807"	1100	.70
9025	1 13/16"	1/2"	1.582"	3.307"	4.007"	1175	.76
9026	1 5/8"	1/2"	1.646"	3.307"	4.007"	1175	.76

CAT. ALOG NO.	NOM. OPEN. SIZE(A)	DRIVE SIZE (M)	TUBE CLEAR- ANCE(H)	WIDTH (G)	TOTAL LENGTH (J)	TORQ. INCH-LBS.	WT. LBS.
9027	1 11/16"	1/2"	1.712"	3.467"	4.167"	1250	.82
9028	1 3/4"	1/2"	1.796"	3.467"	4.167"	1250	.82
9029	1 13/16"	1/2"	1.838"	3.627"	4.327"	1300	.87
9030	1 7/8"	1/2"	1.902"	3.627"	4.327"	1300	.86
9031	1 15/16"	1/2"	1.964"	3.692"	4.392"	1350	.90
9032	2"	1/2"	2.030"	3.692"	4.392"	1350	.86
9033	2 1/16"	1/2"	2.090"	3.807"	4.527"	1400	.94
9034	2 1/8"	1/2"	2.150"	3.807"	4.527"	1400	.90
9035	2 1/4"	1/2"	2.214"	3.957"	4.707"	1500	1.05
9036	2 3/8"	1/2"	2.280"	3.957"	4.707"	1500	1.02
9037	2 5/8"	1/2"	2.342"	4.117"	4.867"	1500	1.20
9038	2 3/4"	1/2"	2.406"	4.117"	4.867"	1500	1.17
9039	2 7/8"	1/2"	2.466"	4.277"	5.027"	1500	1.27
9040	2 15/16"	1/2"	2.530"	4.277"	5.027"	1500	1.20
9041	2 1/2"	1/2"	2.592"	4.440"	5.190"	1500	1.35
9042A	2 5/8"	1/2"	2.660"	4.440"	5.190"	1500	1.32
9043	2 11/16"	1/2"	2.706"	4.607"	5.367"	1500	1.43
9044	2 3/4"	1/2"	2.786"	4.607"	5.367"	1500	1.42
9045	2 13/16"	1/2"	2.846"	4.780"	5.540"	1500	1.49
9046	2 7/8"	1/2"	2.970"	4.780"	5.540"	1500	1.42
9046A	2 15/16"	1/2"	2.970"	4.780"	5.540"	1500	1.42
9047	2 1/2"	1/2"	2.972"	4.957"	5.737"	1500	1.54
9048	3"	1/2"	3.036"	4.957"	5.737"	1500	1.52

For 1/4", 3/8" and 1/2" Drive Handles, Univ. Joints and Torquers, See Pages 33, 35, 36, 38, 39 and 67.

PROTO-TAC RATCHETING WRENCHES

"HY-TORK" Ratcheting Box Wrenches



For extra high torque work. Thin walls permit use on flange bolts and other low clearance jobs. Turned by socket handles and Torquers. Outback teeth and diagonal pawl assure great strength.

CAT. ALOG NO.	NOM. OPEN. (A)	DRIVE SIZE (M)	THICK-NESS (L)	WIDTH OPEN. END (G)	WIDTH DRIVE END (R)	TOTAL LENGTH (J)	DRIVE TO OP. CEN-TERS (T)	TORQ. INCH-LBS.	WT. LBS.	PART NO.
1063/8	3/8"	3/8"	.650"	.872"	.750"	3.375"	2.500"	1100	.32	8106
1081/2	1/2"	1/2"	.650"	.930"	.812"	3.590"	2.625"	1400	.32	8108

18° & 15° Ratcheting Arc (K). Other Sizes Available on Special Order. For 3/8" & 1/2" Drive Handles & Torquers, See Pages 35, 38 & 67.

1/4" SQ. DR. MIDGET SOCKET WRENCHES

Midget sockets save time and trouble on little jobs that ordinary sockets can't handle, such as the repair of carburetors, distributors, radios, instruments, etc. They are accurately made from alloy steels for super strength—and scientifically heat treated to insure long, dependable service.

Federal Specs.: GGG-W-641b.

REG. LENGTH SOCKETS—HEXAGON (6-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT. LBS.
4706	3/16"	1"	.02
4707	1/8"	1"	.02
4708	1/4"	1"	.02
4709	5/16"	1"	.02
4710	3/8"	1"	.02
4711	1/2"	1"	.03
4712	5/8"	1"	.03
4714	3/4"	1"	.04

REG. LENGTH SOCKETS—DOUBLE HEXAGON (12-PT.)

4708T	1/4"	1"	.02
4710T	5/16"	1"	.02
4711T	1/2"	1"	.03
4712T	3/8"	1"	.03
4714T	1/2"	1"	.04
4716	1/2"	1"	.05

REG. LENGTH SOCKETS—DOUBLE SQUARE (8-POINT)

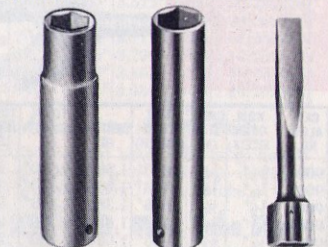
NO.	NOMINAL OPENING	TOTAL LENGTH	WT. LBS.
4708S	1/4"	1"	.02
4710S	5/16"	1"	.05
4712S	3/8"	1"	.05

DEEP LENGTH SOCKETS—HEXAGON (6-POINT)

4708L	1/4"	2"	.04
4709L	5/16"	2"	.04
4710L	3/8"	2"	.04
4711L	1/2"	2"	.07
4712L	5/8"	2"	.09
4714L	3/4"	2"	.11

For Power Sockets, See Pages 21-25.

For Metric Sockets, See Page 8.



4708L-4709L 4710L-4714L 4744-4745

SCREWDRIVER AND SPECIAL SOCKETS

NO.	DESCRIPTION	LENGTH	WT. LBS.
4737	Screwdriver, Phillips No. 1 Bit	1 1/16"	.02
4737L	Screwdriver, Phillips No. 1 Bit	2 1/16"	.03
4738	Screwdriver, Phillips No. 2 Bit	1 1/16"	.02
4738L	Screwdriver, Phillips No. 2 Bit	2 1/16"	.03
4742	Allen-Type, 1/4" Hex. Bit	1 1/16"	.03
4743	Screwdriver, 3/16" x .062" Bit	1"	.02
4744	Screwdriver, 3/16" x .030" Bit	1 1/16"	.03
4745	Screwdriver, 1/4" x .030" Bit	2 7/8"	.04
46535	Screwdriver, Two-Prong Type	1 1/16"	.02

†Used in Automatic Transmission Sets. See Page 66.

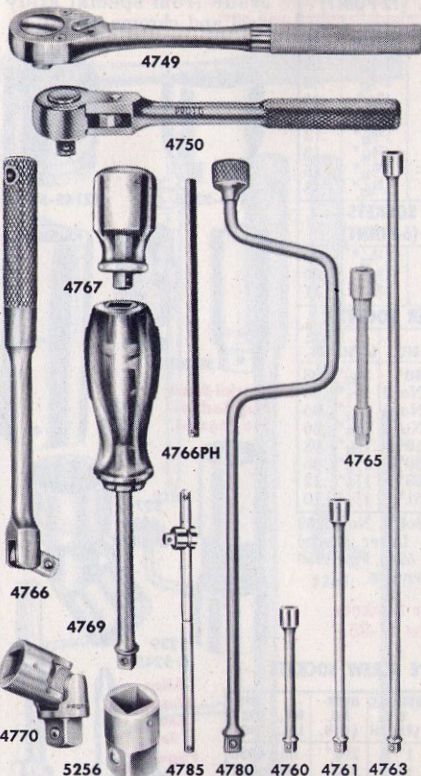
†Chevrolet Distributor Socket. See Page 65.

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.



4737-4738 4742 4743

1/4" SQ. DRIVE MIDGET SOCKET WRENCH HANDLES, ATTACHMENTS AND SET



Federal Descriptions: "Ratchet Handle, Hinged Handle, Speeder Handle, Tee Handle, Extension Bar, Universal Joint and Adapter." Specs.: GGG-W-641b.

Made from PROTOLOY® alloy steel.

® Registered U.S. Pat. Off.

HANDLES			
NO.	DESCRIPTION	OVERALL LENGTH	WT., LBS.
4749	Reversible Ratchet	5"	.21
4750	Reversible Ratchet	4 1/2"	.18
4766	Hinge Handle	5 3/8"	.15
4766PH	Pin Handle	4"	.03
4767	Stubby Socket Driver, Plastic Handle	2 5/8"	.07
4769	Regular Socket Driver, Plastic Handle	5 7/8"	.16
4780	Speed Handle	16"	.39
4785	Sliding Bar T Handle	4 1/2"	.08

PARTS FOR RATCHET 4749

NO.	DESCRIPTION	NO.	DESCRIPTION
4749C	Cover	4749R	Reversing Assembly
4749DL	Dog, Left	4749S	Spring
4749DR	Dog, Right	4749W	Wheel with Plug
4749H	Cover Screw		

ATTACHMENTS

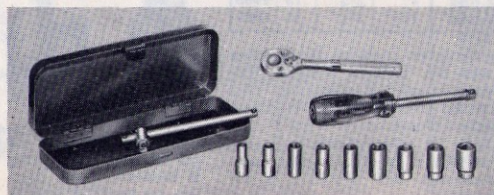
NO.	DESCRIPTION	OVERALL LENGTH	WT., LBS.
4760	Extension	3 1/2"	.05
4761	Extension	6"	.08
4763	Extension	14"	.18
4765	Flexible Extension	4"	.08
4770	Universal Joint	1 1/2"	.04
5256	Adapter, 1/4" F., 3/8" M.	1 1/2"	.03
5255	Adapter, 3/8" F., 1/4" M.	1 1/2"	.05

STEEL SOCKET SET BOX

4795	1"x2 1/4"x6 3/4" (Page 66)	6 1/2"	.52
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No. 4700B Set

Here is a complete set of handy midget tools, designed for all kinds of light work where small nuts and bolts must be turned. Contents listed at right.



NO.	DESCRIPTION
4707	Socket, 6-Point, 7/32" Opening
4708	Socket, 6-Point, 1/4" Opening
4708S	Socket, 8-Point, 1/4" Opening
4709	Socket, 6-Point, 9/32" Opening
4710	Socket, 6-Point, 5/16" Opening
4710S	Socket, 8-Point, 5/16" Opening
4711	Socket, 6-Point, 11/32" Opening
4712	Socket, 6-Point, 3/8" Opening
4714	Socket, 6-Point, 7/16" Opening
4749	Reversible Ratchet, 5" Long
4769	Socket Driver, 5 7/8" Long
4785	Sliding Bar Handle, 4 1/2" Long
4795	Steel Box, 6 1/4"x2 1/4"x1"
Weight, 1.20 Lbs.	

3/8" SQ. DRIVE CUB SOCKET WRENCHES

REGULAR LENGTH SOCKETS— DOUBLE HEX. (12-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5210	5/16"	15 1/8"	.04
5212	3/8"	15 1/8"	.04
5214	7/16"	1"	.04
5216	1 1/2"	1"	.05
5217	1 7/8"	1 1/4"	.06
5218	1 1/2"	1"	.06
5219	1 1/2"	1 1/4"	.07
5220	1 1/2"	1"	.07
5222	1 1/2"	1 1/8"	.09
5224	1 1/2"	1 1/8"	.09
5225	1 1/2"	1 1/8"	.12
5226	1 1/2"	1 1/8"	.12
5228	1 1/2"	1 1/8"	.15

REGULAR LENGTH SOCKETS— HEXAGON (6-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5210H	5/16"	15 1/8"	.04
5212H	3/8"	15 1/8"	.05
5214H	7/16"	1"	.04
5216H	1 1/2"	1"	.05
5218H	1 1/2"	1"	.06
5220H	1 1/2"	1"	.07
5222H	1 1/2"	1 1/8"	.10

REGULAR LENGTH SOCKETS— DOUBLE SQUARE (8-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5208S	1/4"	15 1/8"	.04
5210S	5/16"	15 1/8"	.04
5212S	3/8"	15 1/8"	.06
5214S	7/16"	15 1/8"	.07
5216S	1 1/2"	1"	.10

REGULAR LENGTH SOCKET— SQUARE (4-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
†5209S	9/32"	15 1/8"	.05

DEEP LENGTH SOCKETS— DOUBLE HEX. (12-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5012	3/8"	2 1/8"	.10
5014	7/16"	2 1/8"	.08
5016	1 1/2"	2 1/8"	.10
5018	1 1/2"	2 1/8"	.14
5020	1 1/2"	2 1/8"	.15
5022	1 1/2"	2 1/8"	.19
5024	1 1/2"	2 1/8"	.21
5026	1 1/2"	2 1/8"	.28
5028	1 1/2"	2 1/8"	.27

DEEP LENGTH SOCKETS— HEXAGON (6-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5012H	3/8"	2 1/8"	.10
5014H	7/16"	2 1/8"	.10
5016H	1 1/2"	2 1/8"	.11
5018H	1 1/2"	2 1/8"	.14
5020H	1 1/2"	2 1/8"	.16
5022H	1 1/2"	2 1/8"	.21
5026HP	1 1/2"	2 1/8"	.24

†For Buick Dynaflo Torque Converter Drain Plug.

UNIVERSAL SOCKETS— DOUBLE HEX. (12-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5273	3/8"	1 1/8"	.09
5274	7/16"	1 1/8"	.09
5275	1 1/2"	1 1/8"	.10
5276	1 1/2"	1 1/8"	.11
5277	1 1/2"	1 1/8"	.12
5278	1 1/2"	1 1/8"	.13
5279	1 1/2"	1 1/8"	.15
5272	1 1/2"	1 1/8"	.18

UNIVERSAL SOCKETS— HEXAGON (6-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT., LBS.
5274H	7/16"	1 1/8"	.09
5275H	1 1/2"	1 1/8"	.09
5276H	1 1/2"	1 1/8"	.11

SCREWDRIVER SOCKETS

NO.	SIZE OF BIT	LGTH.	WT., LBS.
5240	5/16"x.040"	3 3/8"	.08
5241	Phillips No. 2	1 1/2"	.05
5242	Phillips No. 3	1 1/2"	.05
5243	Phillips No. 4	1 1/2"	.06
5244	1 1/16"x.116"	1 1/2"	.08
5246	1/4"x.030"	1 1/2"	.06
†5239	9/16"x.063"	1 1/2"	.12
†5245	7/16"x.051"	1 1/2"	.10

†For Oil Pan Bolts. No. 5239 Fits 1940 and Later Model Chevrolets. No. 5245 Fits 1939 and Earlier Chevrolets.

**For Power Sockets,
See Pages 21-25.**

ALLEN-TYPE SCREW SOCKETS

NO.	HEX. BIT SIZE	USEABLE BIT LENGTH	OVER-ALL LGTH.	WT., LBS.	BIT ONLY NO.
4990 1/8	1/8"	1"	2 1/8"	.05	4980
4990 5/32	5/32"	1"	2 1/8"	.06	4981
4990 3/16	3/16"	1"	2 1/8"	.06	4982
4990 1/4	1/4"	2"	3 1/8"	.07	4983
4990 5/16	5/16"	1"	2 3/8"	.08	4984
4990 3/8	3/8"	1"	2 3/8"	.09	4985
4990 1/2	1/2"	1 1/2"	2 1/2"	.10	4986
4990 5/8	5/8"	1"	2 3/4"	.11	4987
4990 3/4	3/4"	1"	2 3/4"	.13	4988
4990 7/8	7/8"	1 1/2"	2 3/4"	.14	4989

•Catalog Number Includes Bit-Holding Socket and Bit. Sockets Without Bits Are Not Available. Replacement Bits Only May Be Ordered by the Numbers in the Right Column.

■4990 1/8 Is for GM Automatic Transmissions, 4990 1/4 Is for Chevrolet Camber Adjustment, and 4990 3/4 Is for Ford Brakes.

Federal Specs.: GGG-W-641b.

Made from special alloy steel and chrome plated.



5218-5228



5214S-5216S



5209S



5014



**Special Spark Plug Socket—
See Page 64.**



5276-5279 & 5272



5239 & 5245

**Allen Wrench Sets—
See Page 64.**



5246



5241-5243



5244

4990 1/8 - 4990 3/4

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opp. Page 80.

3/8" SQ. DRIVE CUB SOCKET WRENCH HANDLES AND CROWFOOT WRENCHES

Federal Descriptions: "Hinged Handle, Ratchet Handle, Speeder Handle and Tee Handle." Specs.: GGG-W-641b.

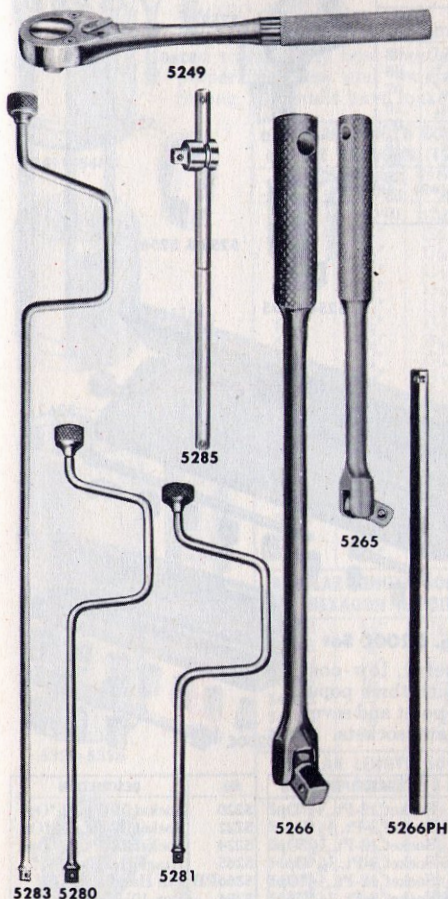
Handles and attachments permit a great number of assemblies. The ratchet is light, trouble-free, long-lived and reversible at flip of lever. Hinge handles, noted for strength and versatility, have hole for inserting pin handle to make a tee or ell attachment. The sliding bar handle provides good leverage with the plug at the end or can be used as a tee handle. Speed handles are for fast running of nuts and bolts. Every Cub handle, attachment and crowfoot is made of special alloy steel and chrome plated.

HANDLES			
NO.	DESCRIPTION	LENGTH	WT. LBS.
5249	Reversible Ratchet	7"	.55
5265	Hinge Handle	7 3/8"	.39
5266	Hinge Handle	12"	.83
5266PH	Pin Handle, 3/16"		
	Round Stock	7 1/2"	.16
5280	Speed Handle	16 1/8"	.83
5281	Speed Handle	14 1/8"	.74
5283	Speed Handle	30 3/8"	1.22
5285	Sliding Bar T Handle	8"	.31

PARTS FOR RATCHET 5249			
NO.	DESCRIPTION	NO.	DESCRIPTION
5249C	Cover	5249R	Reversing Assembly
5249DL	Dog, Left	5249S	Spring
5249DR	Dog, Right	5249W	Wheel with Plug
5249H	Cover Screw		

STEEL SET BOXES		
NO.	DESCRIPTION	WT. LBS.
5294	Box, 10 1/4" x 2 1/4" x 1 1/4" (Page 78)	.83
5295	Box, 18 1/2" x 5 1/4" x 1 1/2" (Page 78)	1.70

CROWFOOT WRENCHES			
NO.	NOMINAL OPENING SIZE	TOTAL LENGTH	WT. LBS.
4912	3/8"	1 1/4"	.05
4914	7/16"	1 1/8"	.05
4916	1/2"	1 1/8"	.05
4918	9/16"	1 3/8"	.08
4920	5/8"	1 3/8"	.08
4922	1 1/16"	1 3/8"	.08
4924	3/4"	1 3/8"	.14
4926	13/16"	1 3/8"	.12
4928	7/8"	1 3/8"	.12
4932	1"	1 3/8"	.12
4940	1 1/4"	2 3/8"	.23
4944	1 3/8"	2"	.21



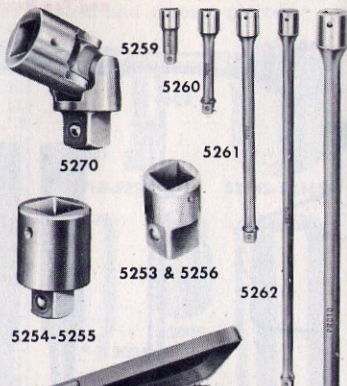
Crowfoot wrenches are handy for getting into restricted clearance places. They reach starters and do many other jobs that normally require special tools.

3/8" SQ. DRIVE CUB SOCKET WRENCH ATTACHMENTS AND SETS

Federal Descriptions: "Adapter, Extension Bar and Universal Joint." Specs.: GGG-W-641b.

ATTACHMENTS

NO.	DESCRIPTION	LENGTH	WT. LBS.
5256	Adapter, 1/4" Female, 3/8" Male	1 1/16"	.03
5255	Adapter, 3/8" Female, 1/2" Male	6 3/64"	.05
5253	Adapter, 3/8" Female, 1/2" Male	1 1/2"	.07
5254	Adapter, 1/2" Female, 3/8" Male	1 1/4"	.10
5259	Extension Bar	1 3/4"	.09
5260	Extension Bar	3 1/2"	.13
5261	Extension Bar	7 1/2"	.25
5262	Extension Bar	12"	.38
5263	Extension Bar	17 1/16"	.53
5270	Universal Joint	1 5/8"	.10



No. 5200AB Set

Containing seven sockets, three handles, two extensions and a universal joint, this expanded set will handle practically all 3/8" drive socket wrench jobs.

Contents

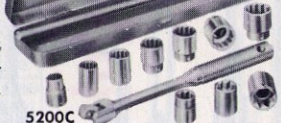
NO.	DESCRIPTION
5212	Socket, 12-Point, 3/8" Opening
5214	Socket, 12-Point, 1/2" Opening
5216	Socket, 12-Point, 3/4" Opening
5218	Socket, 12-Point, 1 1/2" Opening
5220	Socket, 12-Point, 3/8" Opening
5222	Socket, 12-Point, 1 1/4" Opening
5224	Socket, 12-Point, 3/4" Opening
5249	Reversible Ratchet, 7" Long
5260	Extension Bar, 3 1/2" Long
5262	Extension Bar, 12" Long
5265	Hinge Handle, 7 3/8" Long
5270	Universal Joint
5280	Speed Handle, 16 7/8" Long
5295	Steel Box, 18 1/2" x 5 1/4" x 1 1/2"

Weight, 4.6 Lbs.



No. 5200C Set

A useful, low-cost set with three popular 8-point and seven 12-point sockets.



No. 5200AA Set

Same as Set No. 5200AB, except in cardboard box instead of No. 5295 steel box. Weight, 3.2 Lbs.

No. 5000B Deep Socket Set

Includes the following nine extra deep 12-point sockets, packed in cardboard box.

NO.	OPENING SIZE	NO.	OPENING SIZE
5012	3/8"	5022	1 1/16"
5014	1/2"	5024	3/4"
5016	5/8"	5026	1 1/8"
5018	3/4"	5028	1 1/4"
5020	7/8"	Weight, 1.60 Lbs.	

NO.	DESCRIPTION
5212	Socket, 12-Pt., 3/8" Op.
5212S	Socket, 8-Pt., 3/8" Op.
5214	Socket, 12-Pt., 1/2" Op.
5214S	Socket, 8-Pt., 1/2" Op.
5216	Socket, 12-Pt., 3/4" Op.
5216S	Socket, 8-Pt., 3/4" Op.
5218	Socket, 12-Pt., 1 1/2" Op.

NO.	DESCRIPTION
5220	Socket, 12-Pt., 3/8" Op.
5222	Socket, 12-Pt., 1 1/16" Op.
5224	Socket, 12-Pt., 3/4" Op.
5265	Hinge Handle, 7 3/8"
5266PH	Pin Handle, 7 1/2"
5294	Box, 10 1/4" x 2 1/4" x 1 1/4"

Weight, 2.1 Lbs.



1/2" SQUARE DRIVE STANDARD SOCKET WRENCHES

Federal Specs.: GGG-W-641b.

PROTO sockets are made from PROTOLOY® special alloy steel and scientifically heat treated for proper hardness and toughness. Strong, thin walls have maximum

clearance. Accurate openings provide a good, snug grip and prevent slippage. Sockets listed are all chrome plated.

® Registered U.S. Pat. Off.



5419-5440



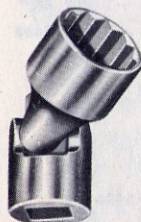
5416S-5434S



5320-5336



5326HP
Special
Spark
Plug
Socket
—See
Page 64.



5477



5444
& 5446

REGULAR LENGTH SOCKETS— DOUBLE HEXAGON (12-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT. LBS.
5412	3/8"	1 1/16"	.09
5414	7/16"	1 1/16"	.09
5416	1/2"	1 1/16"	.10
5418	9/16"	1 1/16"	.13
5419	1 1/8"	1 1/2"	.13
5420	5/8"	1 1/2"	.15
5421	21/32"	1 1/2"	.15
5422	1 1/16"	1 1/2"	.17
5424	3/4"	1 1/2"	.20
5425	25/32"	1 1/2"	.22
5426	13/16"	1 1/2"	.20
5428	7/8"	1 3/4"	.30
5429	29/32"	1 3/4"	.34
5430	1 1/16"	1 3/4"	.33
5431	31/32"	1 3/4"	.34
5432	1"	1 3/4"	.38
5434	1 1/16"	1 13/16"	.42
5436	1 1/8"	1 13/16"	.50
5438	1 1/16"	1 13/16"	.56
5440	1 1/4"	1 13/16"	.61

REGULAR LENGTH SOCKETS— HEXAGON (6-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT. LBS.
5412H	3/8"	1 1/16"	.09
5414H	7/16"	1 1/16"	.10
5416H	1/2"	1 1/16"	.12
5418H	9/16"	1 1/2"	.13
5420H	5/8"	1 1/2"	.12
5422H	1 1/16"	1 1/2"	.17
5424H	3/4"	1 1/2"	.21

REGULAR LENGTH SOCKETS— DOUBLE SQUARE (8-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT. LBS.
5412S	3/8"	1 1/16"	.12
5414S	7/16"	1 1/16"	.14
5416S	1/2"	1 1/16"	.14
5418S	9/16"	1 1/2"	.20
5420S	5/8"	1 1/2"	.23
5422S	1 1/16"	1 1/2"	.30
5424S	3/4"	1 1/2"	.37
5426S	13/16"	1 1/2"	.42
5428S	7/8"	1 13/16"	.52
5432S	1"	1 3/4"	.76
5434S	1 1/16"	1 13/16"	.91

DEEP LENGTH SOCKETS— DOUBLE HEXAGON (12-POINT)

NEW NO.	OLD NO.	NOM. OPEN.	TOTAL LGTH.	WT. LBS.
5316	5340	1/2"	3 1/4"	.25
5318	5341	9/16"	3 1/4"	.27
5320	5343	5/8"	3 1/4"	.28
5322	5344	11/16"	3 1/4"	.34
5324	5345	3/4"	3 1/4"	.40
5326	5347	13/16"	3 1/4"	.40
5328	5348	7/8"	3 1/4"	.44
5330	5349	15/16"	3 1/4"	.52
5332	5351	1"	3 1/4"	.60
5334	5352	1 1/16"	3 1/4"	.68
5336	5353	1 1/8"	3 1/4"	.75

DEEP LENGTH SOCKETS— HEXAGON (6-POINT)

NEW NO.	OLD NO.	NOM. OPEN.	TOTAL LGTH.	WT. LBS.
5326H	5347H	13/16"	3 1/4"	.32
5326HP		13/16"	2 1/2"	.22

UNIVERSAL SOCKETS— DOUBLE HEXAGON (12-POINT)

NO.	NOMINAL OPENING	TOTAL LENGTH	WT. LBS.
5475	1/2"	2 3/4"	.25
5476	9/16"	2 11/16"	.24
5477	5/8"	2 19/16"	.25

†For 14-mm. spark plugs, use hexagon (6-point) deep length socket wrenches Nos. 5326H or 5326HP, which have maximum clearance. No. 5326HP—a special type with a rubber insert for holding a plug—is listed on Page 64. It helps prevent burning of fingers on hot manifolds and greatly speeds the job of changing spark plugs.

SCREWDRIVER SOCKETS

Used on drag links and large screws of many assemblies.

NO.	BIT SIZE	TOTAL LENGTH	WT. LBS.
5444	3/4" x .115"	1 7/8"	.14
5446	1 1/16" x .154"	1 5/8"	.20

See Pages 21-25 for Power Sockets, Page 8 for Metric-Size Sockets and Page 65 for Thin Nose Connecting Rod Sockets.

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.

1/2" SQUARE DRIVE STANDARD SOCKET WRENCH HANDLES

Federal Descriptions: "Ratchet Handle, Hinged Handle, Speeder Handle and Tee Handle." **Specs:** GGG-W-641b.

Made from special alloy steel and chrome plated. With the several types available, all kinds of jobs can be handled efficiently.

HANDLES

NO.	DESCRIPTION	LENGTH	WT., LBS.
5300PH	Pin Handle, 3/8" Stock, for Turning Deep Sockets	8"	.25
5466PH	Pin Handle, 3/8" Stock, for Turning Hinge Handles	11 1/2"	.35
5449	Reversible Ratchet	10"	1.28
5450	Long Reversible Ratchet	15 3/4"	1.82
5457	"Rotahead" Hinge Handle	16"	1.58
5466	Hinge Handle, with Hole for Inserting Pin Handle	10"	1.16
5467	Hinge Handle, with Hole for Inserting Pin Handle	15"	1.56
5468	Hinge Handle, with Hole for Inserting Pin Handle	17 7/8"	1.67
5469	Speed Hinge Handle, 9/16" Stock, 7" Swing Diam., Ball-Brg. Knurled Grip	18"	1.86
5480	Speed Handle, 1/2" Stock, 7 1/2" Swing Diam., Ball-Bearing Knurled Grip	18"	1.52
5485	Sliding Bar T Handle, with Ball to Hold Plug in Tee or Offset Position	12 5/16"	.94
5486	Ell Handle	13 1/2"	1.30

PARTS FOR RATCHETS 5449 AND 5450

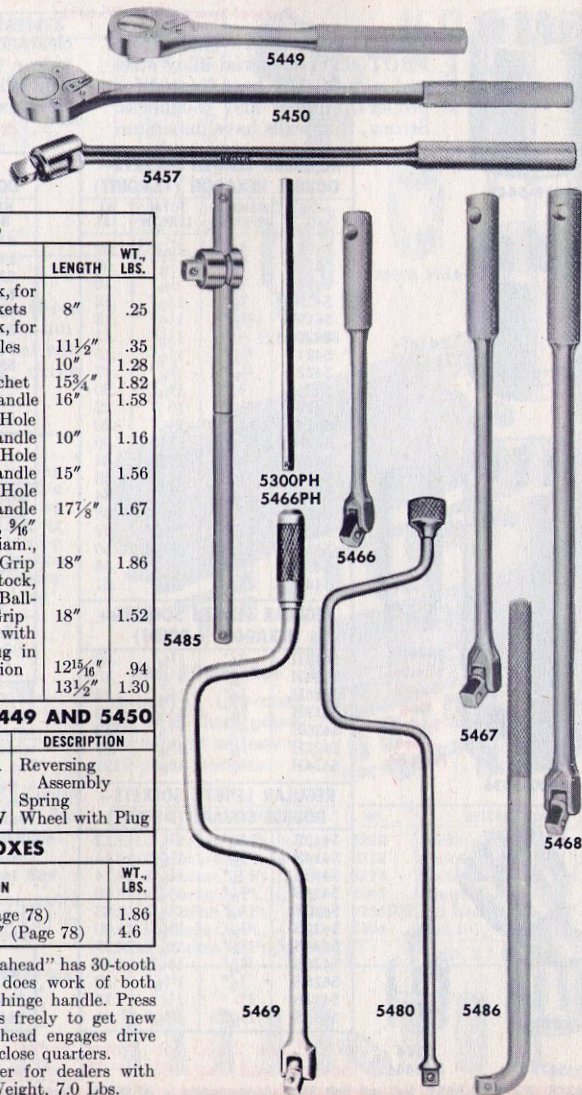
NO.	DESCRIPTION	NO.	DESCRIPTION
5449C	Cover	5449R	Reversing Assembly
5449DL	Dog, Left	5449S	Spring
5449DR	Dog, Right	5449W	Wheel with Plug
5449H	Cover Screw		

STEEL SET BOXES

NO.	DESCRIPTION	WT., LBS.
5494	Box, 17"x3"x2" (Page 78)	1.86
5495	Box, 19 1/16"x7 1/4"x2" (Page 78)	4.6

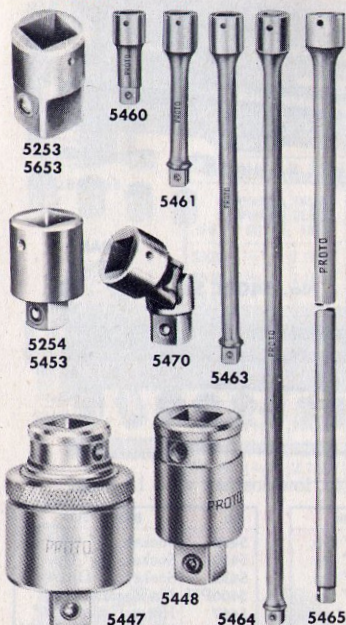
•Revolutionary, patented "Rotahead" has 30-tooth free-wheeling mechanism and does work of both reversible ratchet and regular hinge handle. Press head down and handle rotates freely to get new "bite." Release pressure and head engages drive plug. Compact head works in close quarters.

5457A—Attractive merchandiser for dealers with four No. 5457 "Rotaheads." Weight, 7.0 Lbs.



1/2" SQUARE DRIVE STANDARD SOCKET WRENCH ATTACHMENTS

Federal Descriptions: "Adapter, Extension Bar and Universal Joint." Specs: GGG-W-641b.



Attachments and handles are designed, engineered and manufactured for precise and complete interchangeability. With them, you can make a wide range of combinations for special jobs. Accurate drive ends insure close fitting. They are made from special alloy steel and are chrome plated.

NO.	DESCRIPTION	LGTH.	WT., LBS.
5253	Adapter, 3/8" Female, 1/2" Male	15/32"	.07
5254	Adapter, 1/2" Female, 3/8" Male	1 1/4"	.10
5453	Adapter, 1/2" Female, 3/4" Male	1 1/2"	.22
5454	Adapter, 3/4" Female, 1/2" Male	1 1/2"	.38
5447	"Ratchetor" Ratcheting Attachment	2 1/2"	.73
5448	"Rotahead" Free-Wheeling Attchmt.	2 1/2"	.32
5460	Extension Bar	21 1/2"	.24
5461	Extension Bar	5"	.35
5463	Extension Bar	10"	.63
5464	Extension Bar	18"	1.03
5465	Extension Bar	36"	3.1
5470	Universal Joint	2 3/4"	.26

•Converts any 1/2" drive non-ratcheting handle or attachment into a ratcheting device. Used mainly with a hinge handle, hinge handle plus extension, speed handle or torque wrench. A simple, positive device, huskily built for high torque strength, yet compact for ample clearance. Has very little backdrag. Ratchet has 34 teeth, providing positive engagement every 10 1/2 degrees. Reversing lever acts directly on pawl, eliminating separate cam mechanism and possible misalignment or malfunction.

†For use on non-ratcheting handles or attachments. Employs "Rotahead" hinge handle principle, described on opposite page. Patent Nos.: U.S.—2,617,367; Canada—505,284.

For Torquer Adapters, See Page 68.

REGULAR HEX. SOCKET MERCHANDISER



A display-type package, from which users can select thin-wall hexagon sockets. These 6-point sockets can be used wherever corresponding 12-point types will fit. They safely turn undersize, rusted, damaged and soft metal nuts.

No. 9900J Socket Merchandiser Contents

3/8" Drive Regular Sockets			3/8" Drive Extra Deep Sockets			1/2" Drive Regular Sockets		
NO.	QUAN.	OP.	NO.	QUAN.	OP.	NO.	QUAN.	OP.
5210H	2	5/16"	5012H	2	3/8"	5412H	2	3/8"
5212H	2	3/8"	5014H	2	7/16"	5414H	2	7/16"
5214H	4	1/2"	5016H	4	1 1/2"	5416H	4	1 1/2"
5216H	4	1 1/2"	5018H	4	9/16"	5418H	4	9/16"
5218H	3	5/8"	5020H	2	5/8"	5420H	4	5/8"
5220H	2	5/8"	5022H	2	1 1/8"	5422H	3	1 1/8"
5222H	2	1 1/8"				5424H	4	3/4"

9900J
Weight—7.2 Lbs.

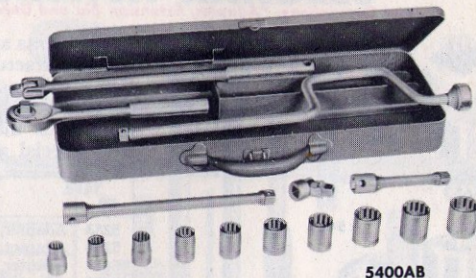
1/2" SQUARE DRIVE STANDARD SOCKET WRENCH SETS

No. 5400AB Set

A popular set, containing 17 items:

NO.	DESCRIPTION
5414	Socket, 12-Point, 7/16" Opening
5416	Socket, 12-Point, 1/2" Opening
5418	Socket, 12-Point, 9/16" Opening
5420	Socket, 12-Point, 5/8" Opening
5422	Socket, 12-Point, 11/16" Opening
5424	Socket, 12-Point, 3/4" Opening
5426	Socket, 12-Point, 13/16" Opening
5428	Socket, 12-Point, 7/8" Opening
5430	Socket, 12-Point, 15/16" Opening
5432	Socket, 12-Point, 1" Opening
5449	Reversible Ratchet, 10" Long
5461	Extension Bar, 5" Long
5463	Extension Bar, 10" Long
5467	Hinge Handle, 15" Long
5470	Universal Joint
5480	Speed Handle, 18" Long
5495	Steel Box, 19 1/16" x 7 1/4" x 2"

Weight, 12 Lbs.



5400AB

No. 5400C Set



Same as Set No. 5400AB except in cardboard box instead of No. 5495 steel box. Weight, 8.2 Lbs.

No. 5400-OC Set

A complete 27-item "Super Set":

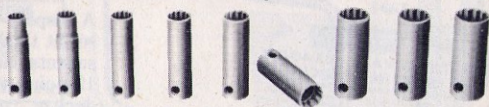
NO.	DESCRIPTION
5414	Socket, 12-Point, 7/16" Opening
5416	Socket, 12-Point, 1/2" Opening
5418	Socket, 12-Point, 9/16" Opening
5419	Socket, 12-Point, 19/32" Opening
5420	Socket, 12-Point, 5/8" Opening
5421	Socket, 12-Point, 21/32" Opening
5422	Socket, 12-Point, 11/16" Opening
5424	Socket, 12-Point, 3/4" Opening
5425	Socket, 12-Point, 23/32" Opening
5426	Socket, 12-Point, 13/16" Opening
5428	Socket, 12-Point, 7/8" Opening
5430	Socket, 12-Point, 15/16" Opening
5431	Socket, 12-Point, 31/32" Opening
5432	Socket, 12-Point, 1" Opening
5434	Socket, 12-Point, 1 1/16" Opening
5436	Socket, 12-Point, 1 1/8" Opening
5438	Socket, 12-Point, 1 3/16" Opening
5440	Socket, 12-Point, 1 1/4" Opening
5449	Reversible Ratchet, 10" Long
5460	Extension Bar, 2 1/2" Long
5461	Extension Bar, 5" Long
5463	Extension Bar, 10" Long
5466PH	Pin Handle, 11 1/2" Long
5468	Hinge Handle, 17 7/8" Long
5470	Universal Joint
5480	Speed Handle, 18" Long
5495	Steel Box, 19 1/16" x 7 1/4" x 2"

Weight, 15 Lbs.

A high-utility, low-cost set with 13 items:

NO.	DESCRIPTION	NO.	DESCRIPTION
5414	Socket, 7/16" Op.	5428	Socket, 7/8" Op.
5416	Socket, 1/2" Op.	5430	Socket, 15/16" Op.
5418	Socket, 9/16" Op.	5432	Socket, 1" Op.
5420	Socket, 5/8" Op.	5466PH	Pin Handle, 11 1/2"
5422	Socket, 11/16" Op.	5467	Hinge Handle, 15"
5424	Socket, 3/4" Op.	5494	Steel Box, 17" x 3" x 2"
5426	Socket, 13/16" Op.		Weight, 5.8 Lbs.

No. 5300B Deep Socket Set



Includes nine 1/2" drive 12-point deep sockets—Nos. 5316, 5318, 5320, 5322, 5324, 5326, 5328, 5330 and 5332—with openings of 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" and 1". Packed in cardboard box. Weight, 3.4 Lbs.

No. 5300E Spark Plug Socket Set

No. 5300PH pin handle and seven deep sockets—Nos. 5320, 5322, 5326, 5328H, 5328, 5330 and 5332—with openings of 5/8", 11/16", 13/16", 15/16", 7/8", 15/16" and 1". Packed in cardboard box. Weight, 3.3 Lbs.

3/4" SQUARE DRIVE HEAVY-DUTY SOCKET WRENCHES AND ATTACHMENTS

Federal Specs.: GGG-W-641b.



5528-5568

These sturdy fine alloy steel tools are used by mechanics and industrial workers who need strength, power, speed and safe operation on really tough jobs. They are essential for the maintenance and installation of heavy machinery and for the repair of trucks, buses, automobiles, tractors and farm implements. An outstanding feature of these sockets, which saves time and money, is their extra length.

REGULAR LENGTH SOCKETS—DOUBLE HEXAGON (12-POINT)

NO.	NOMINAL OPENING SIZE	INSIDE CLEAR- ANCE	OUTSIDE DIAM- ETER	TOTAL LGTH.	WT., LBS.	NO.	NOMINAL OPENING SIZE	INSIDE CLEAR- ANCE	OUTSIDE DIAM- ETER	TOTAL LGTH.	WT., LBS.
5528	7/8"	1.000"	1.313"	2"	.31	5550	1 1/16"	2.750"	2.135"	3 1/2"	1.72
5530	1 1/16"	1.000"	1.420"	2"	.38	5552	1 5/8"	2.750"	2.260"	3 1/2"	1.98
5532	1"	1.125"	1.490"	2"	.47	5554	1 1/16"	2.750"	2.385"	3 1/2"	2.3
5534	1 1/16"	1.125"	1.572"	2"	.49	5556	1 3/4"	2.750"	2.385"	3 1/2"	2.2
5536	1 1/8"	1.562"	1.635"	2 5/16"	.63	5558	1 3/16"	2.750"	2.510"	3 1/2"	2.4
5538	1 3/16"	1.562"	1.697"	2 5/16"	.69	5560	1 7/8"	2.750"	2.635"	3 1/2"	2.7
5540	1 1/4"	1.562"	1.760"	2 5/16"	.73	5564	2"	2.750"	2.760"	3 1/2"	3.1
5542	1 5/16"	1.750"	1.885"	2 1/2"	1.04	5568	2 1/8"	3.000"	2.947"	3 3/32"	3.6
5544	1 3/8"	1.875"	1.947"	2 5/8"	1.15	5570	2 3/16"	3.000"	3.010"	3 3/32"	4.1
5546	1 7/16"	1.875"	2.010"	2 5/8"	1.26	5572	2 1/4"	3.125"	3.156"	3 7/32"	3.5
5548	1 1/2"	2.750"	2.072"	3 1/2"	1.64	5576	2 3/8"	3.125"	3.250"	3 31/32"	3.9



5670

For Power and Impact Sockets, See Pages 21-27.

Federal Descriptions: "Adapter, Extension Bar and Universal Joint." Specs.: GGG-W-641b.

ATTACHMENTS

NO.	DESCRIPTION	LGTH.	WT., LBS.
5653	Adapter, 1/2" Female, 3/4" Male	1 1/2"	.22
5453	Adapter, 3/4" Female, 1/2" Male	1 7/8"	.38
5853	Adapter, 3/4" Female, 1" Male	2 1/4"	.70
5854	Adapter, 1" Female, 3/4" Male	2 1/2"	1.34
5647	"Ratchet" Ratcheting Attachment	3 1/16"	2.5
5660	Extension Bar	5"	.91
5661	Extension Bar	8"	1.36
5663	Extension Bar	16"	2.2
5670	Universal Joint	3 3/16"	.96

STEEL SOCKET SET BOXES

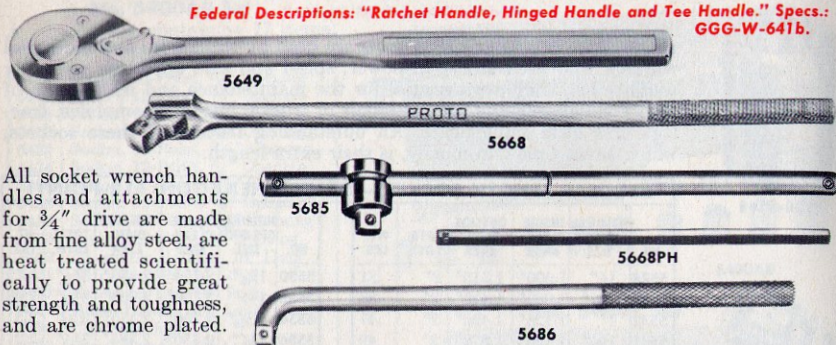
NO.	DESCRIPTION	WT., LBS.
5695	22 1/2"x8"x3 3/4" (Page 78)	9.0
5696	23 1/2"x9 1/4"x4" (Page 78)	16

†Converts any 3/4" square drive non-ratcheting handle or attachment into a ratcheting device. It is used mainly with a hinge handle, hinge handle plus extension bar or a torque wrench. The "Ratchet" is a simple, positive device, huskily built for high torque strength, yet compact for ample clearance. It has very little backdrag. The ratchet has 34 teeth, providing positive engagement every 10 1/2 degrees. The reversing lever acts directly on pawl, eliminating separate cam mechanism and possible misalignment or malfunction.

NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.

3/4" SQ. DRIVE HEAVY-DUTY SOCKET WRENCH HANDLES AND SETS

Federal Descriptions: "Ratchet Handle, Hinged Handle and Tee Handle." Specs.: GGG-W-641b.



All socket wrench handles and attachments for 3/4" drive are made from fine alloy steel, are heat treated scientifically to provide great strength and toughness, and are chrome plated.

HANDLES			
NO.	DESCRIPTION	LGTH.	WT. LBS.
5649	Reversible Ratchet	20"	6.2
5668	Hinge Handle, with Hole for Inserting Pin Handle	22"	3.8
5668PH	Pin Handle, 1/2" Stock	12"	.62
5685	Sliding Bar T Handle, with Ball To Hold Plug in Tee or Offset Position	18 1/2"	3.8
5686	Ell Handle	16"	4.2

PARTS FOR RATCHET 5649			
NO.	DESCRIPTION	NO.	DESCRIPTION
5649C	Cover	5649R	Reversing Assembly
5649DL	Dog, Left	5649S	Spring
5649DR	Dog, Right	5649W	Wheel with Plug
5649H	Cover Screw		

No. 5500A Heavy-Duty Socket Set

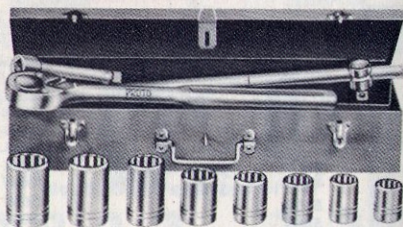
Designed for tough service and very complete, this set is ideal for all types of heavy work. It includes 22 sockets with openings from 7/8" to 2 3/8", three handles, three extension bars and a universal joint in a rugged steel box. Wt., 75 Lbs.

Contents of No. 5500A Set

NO.	DESCRIPTION
5528	Socket, 12-Pt., 7/8" Op.
5530	Socket, 12-Pt., 1 1/16" Op.
5532	Socket, 12-Pt., 1" Op.
5534	Socket, 12-Pt., 1 1/8" Op.
5536	Socket, 12-Pt., 1 1/4" Op.
5538	Socket, 12-Pt., 1 1/2" Op.
5540	Socket, 12-Pt., 1 3/4" Op.
5542	Socket, 12-Pt., 1 7/8" Op.
5544	Socket, 12-Pt., 2" Op.
5546	Socket, 12-Pt., 2 1/8" Op.
5548	Socket, 12-Pt., 2 1/4" Op.
5550	Socket, 12-Pt., 2 3/8" Op.
5552	Socket, 12-Pt., 1 3/8" Op.
5554	Socket, 12-Pt., 1 1/2" Op.
5556	Socket, 12-Pt., 1 3/4" Op.

NO.	DESCRIPTION
5558	Socket, 12-Pt., 1 3/16" Op.
5560	Socket, 12-Pt., 1 1/8" Op.
5564	Socket, 12-Pt., 2" Op.
5568	Socket, 12-Pt., 2 1/8" Op.
5570	Socket, 12-Pt., 2 1/4" Op.
5572	Socket, 12-Pt., 2 3/8" Op.
5576	Socket, 12-Pt., 2 7/8" Op.
5649	Revers. Ratchet, 20" Lg.
5660	Extension Bar, 5" Long
5661	Extension Bar, 8" Long
5663	Extension Bar, 16" Long
5668	Hinge Handle, 22" Long
5670	Universal Joint
5685	Sliding Bar Handle, 18 1/2"
5696	Steel Box, 23 1/2" x 9 1/4" x 4"

No. 5500NR Heavy-Duty Socket Set



Has eight most-used sockets. Wt., 30 Lbs. Contents:

NO.	DESCRIPTION
5534	Socket, 12-Pt., 1 1/16" Op.
5536	Socket, 12-Pt., 1 1/8" Op.
5540	Socket, 12-Pt., 1 1/4" Op.
5542	Socket, 12-Pt., 1 1/2" Op.
5546	Socket, 12-Pt., 1 3/4" Op.
5548	Socket, 12-Pt., 1 7/8" Op.
5552	Socket, 12-Pt., 2" Op.
5556	Socket, 12-Pt., 2 1/8" Op.
5649	Revers. Ratchet, 20" Lg.
5661	Extension Bar, 8" Long
5685	Sliding Bar Handle, 18 1/2"
5695	Steel Box, 22 1/2" x 8" x 3 3/4"

1" SQUARE DRIVE EXTRA HEAVY-DUTY SOCKET WRENCHES AND HANDLES

These special alloy steel huskies are designed for great strength, but streamlined to reduce weight.

Federal Specs.: GGG-W-641b.



5752-
5812

An outstanding feature and big safety factor is the positive means of locking a socket to a handle or attachment. Every 1" male drive plug on the handles, adapters and extension bars has a spring-operated pellet that snaps into a hole in the socket and acts as a retaining pin. Engagement is automatic when the attachment is connected to the socket. To release, you simply push a pin provided for the purpose in each socket.

REGULAR LENGTH SOCKETS— DOUBLE HEXAGON (12-PT.)

NO.	NOM. OPEN. SIZE	INSIDE CLEARANCE	OUTSIDE DIAMETER	TOTAL LGTH.	WT., LBS.
5752	1 5/8"	2.250"	2.370"	3 1/4"	1.73
5758	1 3/16"	2.312"	2.495"	3 5/16"	1.85
5760	1 7/8"	2.375"	2.593"	3 3/8"	1.94
5764	2"	2.437"	2.745"	3 7/16"	2.2
5770	2 3/16"	2.750"	2.995"	3 3/4"	3.1
5772	2 1/4"	2.812"	3.120"	3 13/16"	3.4
5776	2 3/8"	2.937"	3.245"	3 15/16"	3.9
5780	2 1/2"	3.000"	3.495"	4"	4.9
5782	2 9/16"	3.000"	3.495"	4"	4.6
5784	2 5/8"	3.125"	3.620"	4 1/8"	5.2
5788	2 3/4"	3.375"	3.807"	4 3/8"	6.2
5794	2 13/16"	3.625"	4.057"	4 5/8"	7.7
5796	3"	3.500"	4.120"	4 5/8"	8.0
5800	3 1/8"	3.875"	4.307"	4 7/8"	9.6
5812	3 1/2"	4.500"	4.932"	5 1/2"	15

HANDLES

NO.	DESCRIPTION	LGTH.	WT., LBS.
5848	Reversible Ratchet ("Big Bertha"), with 1" Square Female Wheel	26"	11
5849	Reversible Ratchet ("Big Bertha"), with 1" Square Male Adapter Plug 5852	26"	12
5868	Hinge Handle	26"	7.7
5884	Bar, 1" Stock, for Turning Sockets and for Use with Plug 5885 To Form Sliding Bar Handle	24"	5.3
5885	Sliding Plug, with Ball To Hold in Tee or Offset Position on 5884 Bar	27 1/2"	1.40

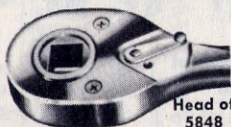
Federal Descriptions: "Ratchet Handle, Hinged Handle and Tee Handle." Specs.: GGG-W-641b.

PARTS FOR RATCHETS 5848 & 5849

NO.	DESCRIPTION	NO.	DESCRIPTION
5848C	Cover	5848S	Spring
5848DL	Dog, Left	5848W	Female Wheel
5848DR	Dog, Right	5852	1" Sq. Male Plug for Converting Ratchet 5848 to 5849. Wt., .72Lb.
5848H	Cover Screw		
5848R	Reversing Assembly		

STEEL SOCKET SET BOXES

NO.	DESCRIPTION	WT., LBS.
5894	30"x8 1/4"x5" (Page 78)	14
5895	31"x13"x5 3/4" (Page 78)	37



Head of
5848



5852



NOTE: For STANDARD Nut and Bolt Sizes, Corresponding to NOMINAL Socket Openings, See Chart Opposite Page 80.

1" DRIVE EXTRA HEAVY-DUTY SOCKET WRENCH ATTACHMENTS AND SETS

All 1" drive socket handles and attachments listed on the preceding page and this page are made from PROTOLOY® special alloy steels. They are scientifically heat treated to provide great strength and toughness. Extra heavy-duty sockets and attachments have many applications in refineries, shipyards, power plants, railroad repair shops, plants with heavy machinery, etc.

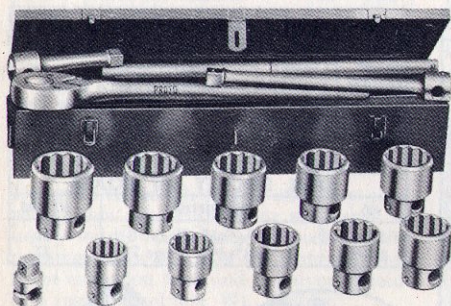
® Registered U.S. Pat. Off.

Federal Descriptions: "Adapter and Extension Bar."
 Specs.: GGG-W-641b.

ATTACHMENTS			
NO.	DESCRIPTION	LGTH.	WT., LBS.
5853	Adapter, 3/4" Female, 1" Male	2 1/4"	70
5854	Adapter, 1" Female, 3/4" Male	2 1/2"	1.34
5861	Extension Bar, with 1" Hole in Female End for Turning with 5884 Bar	8"	2.5
5863	Extension Bar, with 1" Hole in Female End for Turning, with 5884 Bar	17"	4.5



No. 5700AA Extra Heavy-Duty Socket Set



Contents of No. 5700AA Set

NO.	DESCRIPTION
5760	Socket, 12-Pt., 1 7/8" Op.
5764	Socket, 12-Pt., 2" Op.
5770	Socket, 12-Pt., 2 3/16" Op.
5772	Socket, 12-Pt., 2 1/4" Op.
5776	Socket, 12-Pt., 2 3/8" Op.
5780	Socket, 12-Pt., 2 1/2" Op.
5782	Socket, 12-Pt., 2 5/8" Op.
5784	Socket, 12-Pt., 2 3/4" Op.
5788	Socket, 12-Pt., 2 3/4" Op.
5794	Socket, 12-Pt., 2 11/16" Op.
5849	Revers. Ratchet, 26" Lg.
5861	Extension Bar, 8" Long
5863	Extension Bar, 17" Long
5884	Bar Handle, 24" Long
5885	Drive Plug for 5884 Bar
5894	Steel Box, 30"x8 1/4"x5"

Ideal for really tough jobs that demand extra sturdy tools. It contains the ten most-used sockets, with openings from 1 7/8" to 2 11/16", plus a reversible ratchet, a bar handle, a sliding drive plug and two extension bars in a heavy-gauge steel box. Weight, 82 Lbs.

5863

No. 5700B Extra Heavy-Duty Socket Set

A very complete set for installation and repair of heavy equipment. It includes fifteen sockets with openings from 1 5/8" to 3 1/2", a reversible ratchet, a hinge handle, a bar handle, a sliding drive plug and two extension bars in a heavy-gauge steel box. Weight, 150 Lbs.

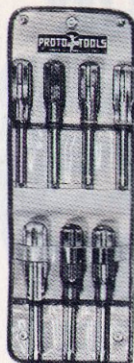
Contents of No. 5700B Set

NO.	DESCRIPTION
5752	Socket, 12-Pt., 1 5/8" Op.
5758	Socket, 12-Pt., 1 13/16" Op.
5760	Socket, 12-Pt., 1 7/8" Op.
5764	Socket, 12-Pt., 2" Op.
5770	Socket, 12-Pt., 2 3/16" Op.
5772	Socket, 12-Pt., 2 1/4" Op.
5776	Socket, 12-Pt., 2 3/8" Op.
5780	Socket, 12-Pt., 2 1/2" Op.
5782	Socket, 12-Pt., 2 5/8" Op.
5784	Socket, 12-Pt., 2 3/4" Op.
5788	Socket, 12-Pt., 2 3/4" Op.

NO.	DESCRIPTION
5794	Socket, 12-Pt., 2 11/16" Op.
5796	Socket, 12-Pt., 3" Op.
5800	Socket, 12-Pt., 3 1/8" Op.
5812	Socket, 12-Pt., 3 1/2" Op.
5849	Revers. Ratchet, 26" Lg.
5861	Extension Bar, 8" Long
5863	Extension Bar, 17" Long
5868	Hinge Handle, 26" Long
5884	Bar Handle, 24" Long
5885	Drive Plug for 5884 Bar
5895	Steel Box, 31"x12"x5 3/4"

HEX NUT DRIVERS

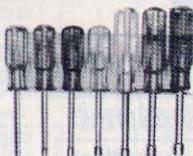
Federal Description: "Socket, Handled, Screwdriver Grip." Specs.: GGG-W-641b, Type III, Class 3.



Fluted handles of fire-resistant plastic are size coded by colors. Chrome plated hollow steel shafts clear long bolts, cut weight.

No. 9200C Set
Includes 7 drivers—Nos. 9206 to 9212, in heavy-duty kit. Wt., 1.44 Lbs.

No. 9200A Set
Includes 7 drivers—Nos. 9206 to 9212, in metal wall rack. Wt., 1.65 Lbs.



NO.	NOM. OPEN.	HNDL. COLOR	TOTAL LGTH.	WT., LBS.
9206	3/16"	Black	6"	.16
9207	7/32"	Brown	6"	.16
9208	1/4"	Red	6"	.16
9209	9/32"	Orange	6"	.16
9210	5/16"	Amber	6 7/8"	.22
9211	1 1/32"	Green	6 7/8"	.22
9212	3/8"	Blue	6 7/8"	.22
9214	7/16"	Brown	7 3/16"	.30
9216	1 1/2"	Red	7 3/16"	.30
9218	3/16"	Orange	7 3/16"	.33
9220	5/8"	Amber	7 3/16"	.33

No. 9200E Merchandiser

For dealers. Displays Set No. 9200A with 7 hex nut drivers and rack, and 4 additional drivers—Nos. 9214 to 9220. Wt., 3.6 Lbs.

"RUBY LINE" SCREWDRIVERS



Keystone Type



Cabinet Type



Low in cost, but high in quality. Ruby red handles of tough, fire-resistant plastic are

shaped for comfortable grip. High-grade steel blades are heat treated and plated.

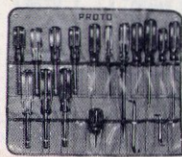
Regular Type—Keystone Bit—Round Shank					
NO.	SHANK DIAM.	BLADE LENGTH	BIT WIDTH	TOTAL LENGTH	WT., LBS.
9304	1/8"	4 1/8"	1/8"	7"	.07
9306	1/8"	6 1/8"	1/8"	9"	.08
9308	1/8"	8 1/8"	1/8"	11"	.09
9314	3/16"	4"	3/16"	7 1/16"	.14
9316	3/16"	6"	3/16"	9 1/16"	.15
9318	3/16"	8"	3/16"	11 1/16"	.17
†9321	1/4"	1 1/2"	1/4"	3 1/16"	.11
9322	1/4"	2"	1/4"	5 7/8"	.18
†9324	1/4"	4"	1/4"	7 7/8"	.20
9326	1/4"	6"	1/4"	9 7/8"	.24
9328	1/4"	8"	1/4"	11 7/8"	.27
9330	1/4"	9 3/4"	1/4"	13 3/8"	.29
9334	5/16"	4"	5/16"	8 3/8"	.30
†9335	5/16"	5"	5/16"	9 3/8"	.32
†9336	5/16"	6"	5/16"	10 3/8"	.35
9338	5/16"	8"	5/16"	12 3/8"	.39
Phillips Bit—Round Shank					
†9382	3/16"	2 7/8"	#1	6 5/8"	.12
†9384	1/4"	4"	#2	7 7/8"	.21

Cabinet Type—Straight Bit—Round Shank					
NO.	SHANK DIAM.	BLADE LENGTH	BIT WIDTH	TOTAL LENGTH	WT., LBS.
†9352	1/8"	1 3/4"	1/8"	4 1/8"	.04
†9353	1/8"	3 1/8"	1/8"	6"	.06
†9354	1/8"	4 1/8"	1/8"	7"	.07
†9355	1/8"	5 1/8"	1/8"	8"	.08
†9356	1/8"	6 1/8"	1/8"	9"	.08
†9358	1/8"	8 1/8"	1/8"	11"	.09
†9360	1/8"	9 3/4"	1/8"	12 3/8"	.09
†9362	3/16"	1 1/2"	3/16"	4 15/16"	.11
†9364	3/16"	4"	3/16"	7 1/16"	.13
†9365	3/16"	5"	3/16"	8 1/16"	.14
†9366	3/16"	6"	3/16"	9 1/16"	.15
†9368	3/16"	8"	3/16"	11 1/16"	.17
†9370	3/16"	9 3/4"	3/16"	13 3/8"	.18
9372	1/4"	2"	1/4"	5 7/8"	.18
9374	1/4"	4"	1/4"	7 7/8"	.21
9375	1/4"	5"	1/4"	8 7/8"	.22
†9376	1/4"	6"	1/4"	9 7/8"	.23
†9378	1/4"	8"	1/4"	11 7/8"	.26
†9380	1/4"	9 3/4"	1/4"	13 3/8"	.28

†Federal Specs.: GGG-S-121c.



No. 9300D Screwdriver Set
Includes 10 drivers—Nos. 9321, 9353, 9358, 9364, 9366, 9368, 9382, 9384, 9850 and 9854, in kit. Wt., 1.40 Lbs.



No. 9200F Electronics Tool Set

Includes 7 hex nut drivers—Nos. 9206, 9208, 9210, 9211, 9212, 9214 and 9216, and 10 screwdrivers—Nos. 3514, 3614, 9321, 9353, 9358, 9366, 9382, 9384, 9850 and 9854, in kit. Wt., 2.6 Lbs.

For More Electronics Tools, See Pliers, Snips, Wrenches, Sockets, Hammers, Grab-Alls, etc.

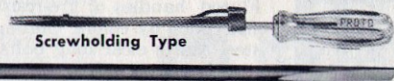
"BET'R-GRIP"® SCREWDRIVERS

® Registered U. S. Pat. Off.

Plastic-Handle Regular Type
with Standard Bit



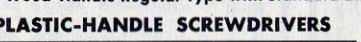
Screwholding Type



Plastic-Handle Cabinet Type with Straight Bit



Wood-Handle Regular Type with Standard Bit



PLASTIC-HANDLE SCREWDRIVERS

Regular Type—Standard Bit—Round Shank

NO.	SHANK SIZE	BLADE LENGTH	BIT WIDTH	OVERALL LENGTH	WT., LBS.
*9604	1/8"	4"	1/4"	8"	.17
*9606	3/16"	6"	5/16"	10 3/8"	.30
9643	5/16"	10"	11/32"	14 3/8"	.39
*9608	3/8"	8"	3/8"	13"	.47

Regular Type—Standard Bit—Square Shank

9822	1/8"	2 1/2"	1/8"	5 1/4"	.04
9801	3/16"	1 1/2"	1/8"	4 1/4"	.06
9832	3/16"	4"	1/8"	7 3/8"	.11
9833	3/16"	7 1/2"	1/8"	10 7/8"	.15
9803	1/4"	3"	1/8"	6 3/8"	.13
*9804	1/4"	4"	1/4"	8"	.19
9842	1/4"	9"	1/4"	13"	.28
*9805	5/16"	5"	5/16"	9 3/8"	.31
*9806	5/16"	6"	5/16"	10 3/8"	.36
9843	5/16"	10"	11/32"	14 3/8"	.45
*9808	3/8"	8"	3/8"	13"	.55
*9810	3/8"	10"	3/8"	15"	.62
*9812	3/8"	12"	3/8"	17"	.69

Cabinet Type—Straight Bit—Round Shank

9622	1/8"	2 1/2"	1/8"	5 1/4"	.04
*9623	1/8"	3"	1/8"	5 3/4"	.05
*9624	1/8"	4"	1/8"	6 3/4"	.06
*9625	1/8"	5"	1/8"	7 3/4"	.05
*9626	1/8"	6"	1/8"	8 3/4"	.06
*9627	1/8"	8"	1/8"	10 3/4"	.06
*9631	3/16"	3"	3/16"	6 3/8"	.10
*9632	3/16"	4"	3/16"	7 3/8"	.10
*9633	3/16"	5"	3/16"	8 3/8"	.13
*9634	3/16"	6"	3/16"	9 3/8"	.14
*9635	3/16"	8"	3/16"	11 3/8"	.13
*9636	1/4"	10"	1/4"	14"	.24
9642	1/4"	12"	1/4"	16"	.26

*Screwholding Type—Std. Bit—Square Shank

9850	1/8"	4"	1/8"	6 3/4"	.07
9852	1/8"	6"	5/8"	8 3/4"	.08
9854	3/16"	7"	3/16"	10 3/8"	.16

*Has Spring-Operated "Tension-Tip" Device (U. S. Pat. No. 2,516,457) for Holding Screw on Bit.

There are many reasons for the great popularity of these screwdrivers. Blades are made from fine alloy steels and are scientifically heat treated their entire length.

Plastic handles feature a revolutionary hand-fitting shape with a large diameter to provide a "big handful" and resulting powerful grip. Extra deep flutes prevent hand slippage and screwdriver rolling. A large bearing surface on the outer handle end allows great pressure with the palm. The tough plastic is non-explosive, does not burn readily, and is a good insulator.

Favorites for years are the sure-grip, octagon-shaped wood handles. The seasoned hardwood handle is protected on most types by a ferrule and a steel cap.

WOOD-HANDLE SCREWDRIVERS

Regular Type—Standard Bit—Square Shank

NO.	SHANK SIZE	BLADE LENGTH	BIT WIDTH	OVERALL LENGTH	WT., LBS.
*9701	3/16"	1 1/2"	1/8"	4 9/16"	.09
*9702	3/16"	2 1/2"	1/8"	6 1/16"	.15
*9704	1/4"	4 1/16"	1/4"	9 9/32"	.29
*9706	5/16"	6"	5/16"	12 1/16"	.51
*9708	3/8"	8"	3/8"	14 1/16"	.78
*9710	3/8"	10"	3/8"	16 1/16"	.87
*9712	3/8"	12"	3/8"	18 1/16"	.97
*9714	7/16"	13 7/8"	31/64"	22 1/16"	1.55

Long Type—Square Shank

9722	1/8"	2 1/2"	1/8"	5 1/4"	.06
9724	1/8"	4 1/2"	1/8"	7 3/4"	.07
9732	3/16"	4"	1/8"	8 3/8"	.16
9733	3/16"	7 1/2"	1/8"	12 3/8"	.19
*9741	3/16"	9"	1/8"	13 3/8"	.21
*9742	1/4"	9 17/32"	1/4"	14 9/32"	.38
*9744	1/4"	24"	1/4"	29 1/16"	.64
*9743	5/16"	10"	11/32"	16 1/16"	.62

• Has Steel Cap, Riveted to Handle and Blade.

*Federal Specs.: GGG-S-121c.

"BET'R-GRIP"® SPECIAL SCREWDRIVERS

® Registered U. S. Pat. Off.



Blades are made from fine alloy steels and heat treated their entire length.

Phillips Screwdrivers

Drive Phillips cross-slotted screws.

Plastic-Handle Screwdrivers

NO.	PHILLIPS BIT NO.	SHANK DIAM.	BLADE LENGTH	OVERALL LENGTH	WT., LBS.
*9682	1	3/16"	3"	6 3/8"	.09
*9684	2	1/4"	4"	8"	.17
*9686	3	5/16"	6"	10 3/8"	.30
*9688	4	3/8"	8"	13"	.48
*9671	2	1/4"	9/16"	2 1/16"	.07

Wood-Handle Screwdrivers

NO.	PHILLIPS BIT NO.	SHANK DIAM.	BLADE LENGTH	OVERALL LENGTH	WT., LBS.
9782	1	3/16"	3"	6 1/4"	.07
9784	2	1/4"	4"	8 7/8"	.18
9786	3	5/16"	6"	11 7/8"	.34
9788	4	3/8"	8"	14 1/2"	.52

• Stubby Type—For Restricted Clearance Work.

Clutch Head (Fig. 8 or Butterfly) Screwdrivers

Bits are Type G design, preferred in service work.

NO.	BIT SIZE	NOS. OF SCREWS ACCOMMODATED				BLADE LGTH.	OVER. LGTH.	WT., LBS.
		ALL HDS.	FLAT, OVAL	PAN	FILL.			
9693	5/32"	8	6 †	6, 10	10	5 1/2"	9 1/8"	.19
9694	3/16"	10 †	10 †	12	12	5 7/8"	9 7/8"	.20
9695	1/4"	14, 1 1/4"	12	12	12	6 1/8"	10 1/2"	.32
9696	5/16"	16	16 ‡	3/8"	3/8"	6 1/2"	11 1/8"	.40

†Also #10 Hexagon. ‡Also #10 Truss & #12 Binding. §Also 3/4" Truss, Hex. & Binding.

Offset Screwdrivers

For drag link and brake adjustments, and work in close places. Bits at right angles to each other.

NO.	BIT WIDTH	LENGTH	WT., LBS.	NO.	BIT WIDTH	LENGTH	WT., LBS.
*35 1/4	1/4"	3"	.05	*36 1/16	5/8"	5"	.11
36 1/4	1/4"	4 3/4"	.07	*36 3/8	3/8"	6 1/8"	.19

No. 9752 Tappet Wood-Handle Screwdriver

Short and strong. Fine for tappet work and many other jobs. Shank, 3/16" sq. Blade length, 1 1/16". Bit width, 1 1/32". Overall length, 6". Weight, .30 Lb.

Stubby Plastic-Handle Screwdrivers

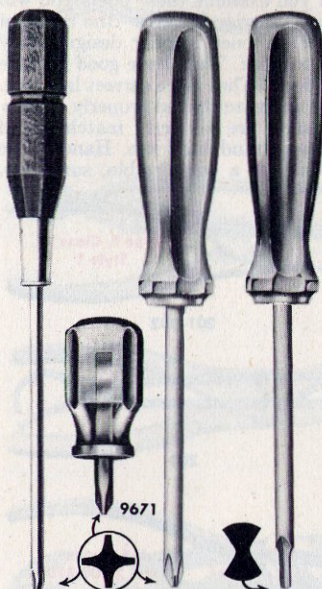
Necessary where long handles prevent free turning.

NO.	SHANK SIZE AND SHAPE	BLADE LENGTH	BIT WIDTH	OVERALL LENGTH	WT., LBS.
9651	3/16" Square	1"	3/32"	2 7/8"	.07
*9652	1/4" Square	1 1/2"	3/32"	3 3/8"	.12

No. 100 Key Ring Screwdriver

The perfect gift. Has hundreds of uses. Bit width, 3/16". Length, 2 1/4". Weight, .015 Lb.

*Federal Specs.: GGG-S-121c.



9782-9788

9682-9688

9693-9696



35 1/4 - 36 1/4

9752

9651-9652

100

Phillips & Standard Screwdriver Sockets — See Pages 32, 34 & 37

PLIERS

Federal Specs.: GGG-P-471a. See Individual Pliers Listed for Type, Class and Style of Those That Conform.

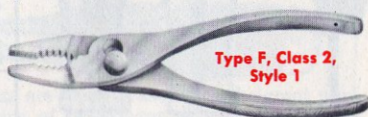
Among the many styles and sizes of pliers available in the extensive PROTO line, you can find the right ones for any job. And you are assured of getting highest quality.

Skilled workmen, with the aid of modern equipment, forge and machine these pliers to high standards. Long life is insured by their sturdy construction and by the use of fine high-grade steels.

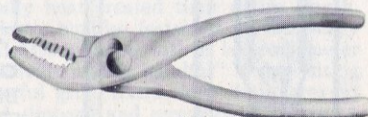
Nos. 201 & 202 Thin Nose Slip Joint Pliers

Designed with a slim nose to reach into tight places. Have two jaw-opening adjustments and shear-type wire cutter. Handy for all automobile owners and mechanics. Two sizes.

NO.	LENGTH	WEIGHT	SPARE BOLT & NUT NO.
201	5½"	.25 Lb.	275B
202	6½"	.32 Lb.	202B



201-202



203

No. 203 Thin Bent Nose Slip Joint Plier

Made with 30° offset thin nose which reaches into many places inaccessible with straight nose pliers. Handy for pulling small nails and staples. Has two jaw-opening adjustments and wire cutter of shear type. Length, 6¾". Weight, .40 Lb. No. 202B—Spare Bolt and Nut.

Nos. 204T & 206T "Snip-Grip" Diagonal Cutting Pliers

Red plastic inserts on cutting edges grip end of wire after cut is made. Holding wire ends prevents shorts, machine failure and eye injuries.

NO.	LENGTH	WEIGHT
204T	4½"	.16 Lb.
206T	6"	.31 Lb.



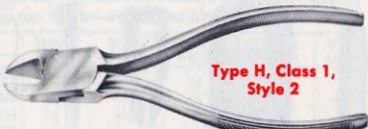
204T & 206T

Nos. 204, 206 & 207 Diagonal Cutting Pliers

Thin, narrow jaws work easily in congested places. Sharp cutting edges are perfectly matched and withstand hard usage. Useful for switchboard, telephone, ignition and other electrical work.

NO.	LENGTH	WEIGHT	NO.	WEIGHT
204	4½"	.16 Lb.	*204G	.20 Lb.
206	6"	.31 Lb.	*206G	.40 Lb.
207	7"	.46 Lb.	*207G	.50 Lb.

*Fitted with "Handeze" plastic grips.



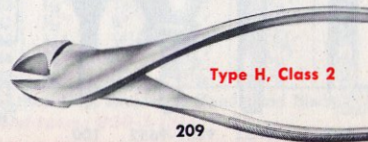
204



206 & 207

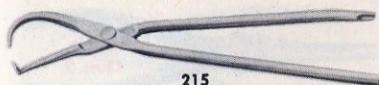
No. 209 Heavy-Duty Diagonal Cutting Plier

Powerful cutter, with joint close to short jaws for great leverage. Cuts heavy wire with little effort. Sharp cutting edges are perfectly matched. Length, 7". Weight, .47 Lb. No. 209G—Fitted with "Handeze" plastic grips. Weight, .60 Lb.



209

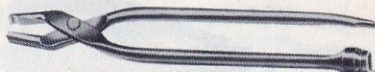
PLIERS



215

No. 215 Brake Spring Plier

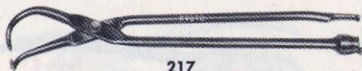
Curved jaw clears edge of brake shoe to bring it in close adjustment with center line of spring. Thin hooked jaw slips easily under spring. A necessary plier for auto mechanics. Length, 12½". Weight, .61 Lb.



216

No. 216 Bendix Brake Plier

Three tools in one! Speeds and simplifies Bendix brake repairs. Special jaws remove hold down cups. A cup on one handle end fits over anchor pin and lug lifts off anchor pin springs. Other handle end has shovel for replacing anchor pin springs. Length, 11¼". Weight, .62 Lb.



217

No. 217 All-Purpose Brake Plier

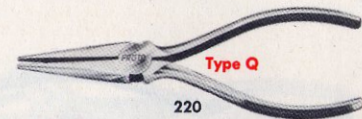
Combines jaws of No. 215 Brake Spring Plier and handle end features of No. 216 Bendix Brake Plier. Length, 13½". Weight, .78 Lb.



218

No. 218 Angle Nose Battery Plier

Thin jaws at 30° angle make terminal nuts easily accessible. No matter what condition the nuts or bolts are in from corrosion or tool damage, the gripping jaws take a sure hold. Length, 8". Weight, .40 Lb. No. 218G—Fitted with "Handeze" plastic grips. Weight .50 Lb.



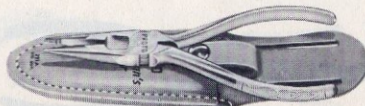
220

No. 220 Long Chain Nose Plier

Diamond-serrated jaws and long, slim nose make loops and bends in tight places. Absence of side cutter prevents cutting by mistake. Handy for various types of electrical work. Length, 6¾". Weight, .34 Lb. No. 220G—Fitted with "Handeze" plastic grips. Weight, .38 Lb.

No. 221 Fisherman's Plier

All-purpose type—ideal for sportsmen. Needle nose jaws extract hooks, attach sinkers, fasten leaders, tie flies and skin fish. Side cutter bites through steel leaders. Useful for fixing reels, outboard motors, etc. Fish knurl handles give sure grip. Rust protected by heavy chrome plating. Length, 6¾". Weight, .29 Lb. No. 221C—Merchandiser for dealers. Displays six No. 221 Pliers. Weight, 2.4 Lbs.



221A Set

No. 221A Fisherman's Plier and Sheath Set

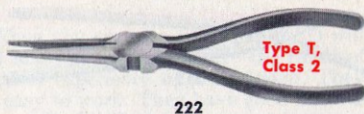
Perfect gift. Includes No. 221 Fisherman's Plier and belt-type, gold-embossed, saddle leather protective sheath. Strap with button clasp prevents loss of plier. Weight, .35 Lb.

No. 221B—Merchandiser for dealers. Displays six No. 221A Sets. Weight, 3.0 Lbs.

PLIERS

No. 222 Long Thin Needle Nose Plier

Has very thin nose for getting into places with restricted clearance. Needed for many jobs but especially useful for television, radio and all other types of electronics work. Length, $6\frac{3}{4}$ ". Weight, .26 Lb. No. 222G—Fitted with "Handeze" plastic grips. Weight, .30 Lb.

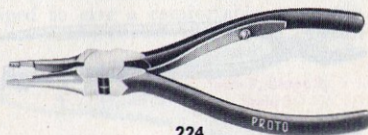


222

Type T,
Class 2

No. 224 Electronics & Ignition Cutting Plier

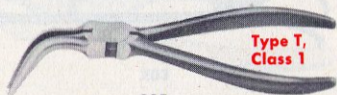
Slim needle nose type with cutter only $\frac{3}{16}$ " back from tip. For reaching into close quarters to pull or cut wire. Spring on handle holds plier in open position. Used for ignition, television, radio and other electronics assembly and repair work. Length, 6". Weight, .25 Lb. No. 224S—Spare Handle Spring. No. 224P—Spare Handle Spring Screw. No. 224G—Fitted with "Handeze" plastic grips. Weight, .29 Lb.



224

No. 225 Curved Thin Needle Nose Plier

Same as No. 222 plier, except nose is bent at 79° angle. Handy for reaching around objects, as required in radio assembly and numerous other jobs. Has diamond pattern teeth for side holding and pulling of various items. Length, 6". Weight, .26 Lb. No. 225G—Fitted with "Handeze" plastic grips. Weight, .40 Lb.

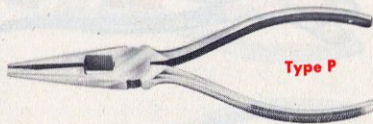


225

Type T,
Class 1

No. 226 Needle Nose Side Cutting Plier

The long nose and the strong, extra sharp side cutters make an ideal combination for radio, telephone and other electrical work. A good long-reach plier for many types of jobs. Length, $6\frac{3}{4}$ ". Weight, .29 Lb. No. 226G—Fitted with "Handeze" plastic grips. Weight, .40 Lb.



226

Type P

No. 227 Duckbill Plier

A useful plier for carburetor, radio, refrigerator, electrical typewriter, office machine and many other types of work. Long handles provide powerful leverage. Jaws have versatile diamond knurled teeth for positive gripping. Length, $7\frac{1}{2}$ ". Weight, .31 Lb. No. 227G—Fitted with "Handeze" plastic grips. Weight, .40 Lb.

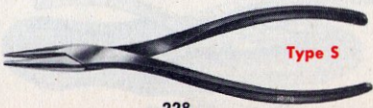


227

Type I

No. 228 Long Reach Needle Nose Plier

For drawing and looping wire, forming terminals, working in close quarters, and reaching way back into assemblies. Extra length is useful for repair and assembly of instruments, TV sets and other electrical equipment. Diamond knurled teeth permit pulling or side holding. Grip, $1\frac{3}{8}$ ". Length, 8". Weight, .36 Lb. No. 228G—Fitted with "Handeze" plastic grips. Weight, .50 Lb.



228

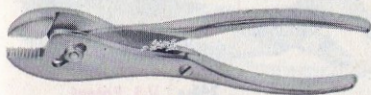
Type S

PLIERS



230

Type E,
Class 2

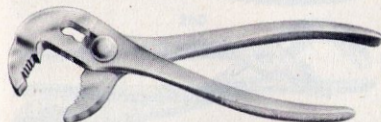


234

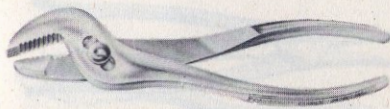


235

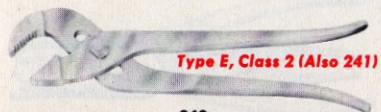
Type E,
Class 2



238



239



240

Type E, Class 2 (Also 241)

No. 230 Midget Slip Joint Ignition Plier

Similar to No. 235 Midget Plier in design, but protected from rust by Parco-Lubrite finish instead of chrome plating and therefore costs less. Useful for ignition work and many other jobs requiring narrow jaws. Has three jaw-opening adjustments. Length, $4\frac{1}{2}$ ". Weight, .09 Lb. No. 235B—Spare Bolt and Nut.

No. 230A—Merchandise for dealers. Displays twelve No. 230 Pliers. Weight, 1.80 Lbs.

No. 234 "Multi-Plier"

"A chest of tools in one," this revolutionary plier is perfect for countless jobs, and is a "must" for all tool users. Patented, three-piece compound-leverage design multiplies applied pressure ten times! Non-slip jaws open to $1\frac{1}{4}$ ". Unique diagonal four-position slot gives closer, easier jaw adjustments, and reduces wedge action and wear. Length, $7\frac{3}{4}$ ". Weight, .51 Lb. No. 234N—Spare Nut. No. 234P—Spare Screw. No. 234W—Spare Washer.

No. 235 Midget Slip Joint Ignition Plier

Designed for ignition work but has many other uses where narrow jaws are needed. Light and convenient to use. Has three jaw-opening adjustments. Chrome plated. Length, $4\frac{1}{2}$ ". Weight, .09 Lb. No. 235B—Spare Bolt and Nut. Also see No. 230 Midget Plier.

Nos. 236 & 238 Parrot Nose Wrench Pliers

Combination plier and pipe wrench, with 75° offset nose. No. 236 has three jaw-opening adjustments and No. 238 has four adjustments. Noted for grip. Ideal for pipe and tubing work.

NO.	LENGTH	WEIGHT	SPARE BOLT & NUT NO.
236	6"	.41 Lb.	202B
238	$7\frac{1}{2}$ "	.58 Lb.	257B

No. 239 Wrench Plier

A popular type, with long, slim 20° offset nose and three jaw-opening adjustments. Jaws hold objects in front of center, giving a powerful gripping action. Length, 8". Weight, .56 Lb. No. 202B—Spare Bolt and Nut.

Nos. 240 & 241 General Utility Pliers

All-purpose pliers, with five jaw-opening adjustments. Teeth are shaped as in a pipe wrench, insuring positive grip on round objects.

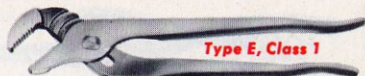
NO.	TYPE DUTY	LENGTH	WEIGHT	SPARE BOLT & NUT NO.
240	Heavy	9"	.58 Lb.	240B
241	Light	$9\frac{1}{2}$ "	.52 Lb.	241B

PLIERS

Nos. 242 & 243 Multiple-Groove Joint Pliers

A curved tongue-and-groove type of joint holds the jaws securely in any desired position and takes strain off bolt. Five grooves provide wide opening range for handling hundreds of jobs.

NO.	LENGTH	WEIGHT	SPARE BOLT & NUT NO.
242	7½"	.44 Lb.	243B
243	10"	.74 Lb.	243B



Type E, Class 1

242 & 243

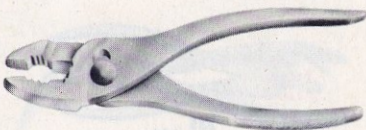
No. 245 Self-Energizing Gear-Lock Plier

In this revolutionary "Plier of Tomorrow," bolt slides into slanting gear-type slots. As handles are squeezed, bolt locks in chosen slot and jaw pressure increases. Design eliminates slipping, prevents binding and wear of bolt and slot, and permits smooth, visible adjustments in five slots. Other features include slim jaws, 1¾" opening, sharp pipe wrench teeth, and powerful, novel, no-bend cutter. Length, 9¾". Weight, .66 Lb. No. 245B—Spare Bolt and Nut.

245 U.S. Patent
No. 2,702,895

No. 246 Comb. Slip Joint Side Cutting Plier

A well-made plier that cuts most wire and nails with ease. Has two jaw-opening adjustments. Length, 6". Weight, .48 Lb. No. 246B—Spare Bolt and Nut. No. 246W—Spare Washer.



246

No. 248 Non-Marring Jaw Plier

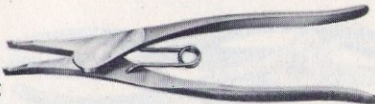
Another sensational plier—with replaceable jaw inserts for protecting soft metal and decorative finish nuts from damage. A novel gear rack, with teeth 1/16" apart, permits 40 parallel jaw positions for securing maximum bearing surface on basin and other nuts up to 2½". Cam pulls sliding wedge against teeth in rack, and squeezing the extra long handles creates locking action. Length, 11¼". Weight, .94 Lb. No. 248B—Spare Bolt and Nut. No. 248J—Spare Pair of Jaw Inserts with Four Screws.



248 Patent Applied For

No. 250 Lock Ring & "Horseshoe" Washer Plier

A money-saving dual-purpose plier, for spreading both soft iron "horseshoe" lock washers used on brakes and tempered steel lock rings used on shafting to locate bearings, gears, etc. Length, 8¼". Weight, .34 Lb. No. 250S—Spare Spring.



250

No. 251 Parallel Jaw Lock Ring Plier

Powerful compound leverage simplifies removal of lock or snap rings used on shafts to retain bearings. Jaw tip indentations hold two ends of ring securely and prevent breakage. Length, 8¼". Weight, .54 Lb. No. 251S—Spare Spring.



251

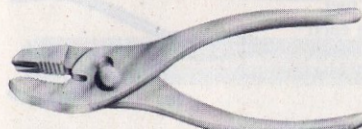
PLIERS



252

No. 252 Corbin Hose Clamp Plier

For installation and repair of Corbin spring tension clamps, used on hose connections for radiator water pumps and heaters in many cars. Two gripping positions engage gears and prevent hazard of clamp flying out of the plier. Length, 7 $\frac{3}{4}$ ". Weight, .47 Lb.



257

No. 257 Heavy-Duty Universal Plier

A curved jaw grips objects of almost any shape. Other jaw is grooved for gripping wire, etc. Has a shear-type wire cutter and two jaw-opening adjustments. Length, 7". Weight, .55 Lb. No. 257B—Spare Bolt and Nut.



258

No. 258 Gas Plier

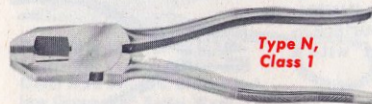
Handles many sizes of studs, tubing and pipe. Jaws have two different sizes of concave openings—for both small and large-diameter objects. Jaw ends have lengthwise tube-gripping teeth. Length, 8 $\frac{1}{4}$ ". Weight, .62 Lb.



260

No. 260 Long Thin Nose Telephone Plier

Popular for telephone work and for radio installation and repair. Long thin nose gets into tight places. Has powerful shear-type wire cutter. Length, 6 $\frac{1}{4}$ ". Weight, .25 Lb. No. 260G—Fitted with "Handeze" plastic grips. Weight, .30 Lb.



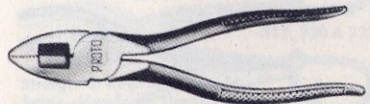
266-268

Nos. 266 & 268 Lineman's Side Cutting Pliers

For utility linemen's work but used also for wiring and electrical equipment installation and maintenance. Useful, too, around filling stations and garages. The sharp edges stand hard usage.

NO.	LENGTH	WEIGHT	NO.	WEIGHT
266	6"	.40 Lb.	*266G	.50 Lb.
268	8"	.81 Lb.	*268G	.90 Lb.

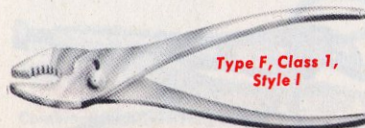
*Fitted with "Handeze" plastic grips.



267

No. 267 New England Style Lineman's Plier

Heavy-duty type, with powerful cutters. Slim-nosed for greater accessibility to restricted or cramped spaces. Knurled handles are comfortably shaped. Length, 7". Weight, .65 Lb.



275-280

Nos. 275-280 Slip Joint Pliers

Leaders for general utility, design and service. Have two jaw-opening adjustments and a shear-type wire cutter. Four sizes.

NO.	LENGTH	WEIGHT	SPARE BOLT & NUT NO.
275	5"	.26 Lb.	275B
276	6 $\frac{1}{2}$ "	.38 Lb.	202B
278	8"	.50 Lb.	202B
280	10"	.88 Lb.	280B

PLIERS

"Mighty Midget" Pliers

These matched pliers, intended for television and radio service men, electronics and communications technicians, automotive and aviation mechanics, hobbyists and many others, speed precision work on small objects in tight places. Comfortable, wide-opening handles provide high leverage, fit snugly into the palm, and have good "feel."

No. 281A—Merchandiser for dealers. Displays one each of the twelve pliers described in the following listings—Nos. 281 to 286 and 281G to 286G. Weight, 1.34 Lbs.

No. 281 Midget Straight Nose Plier

Slim, tapered jaws reach into narrow places. Sharp milled teeth assure good grip on smallest objects. Length, $4\frac{1}{2}$ ". Weight, .08 Lb. **No. 281G**—Fitted with "Handeze" plastic grips. Weight, .09 Lb.

No. 282 Midget Chain Nose Plier

Narrow, tapered jaws with flat inside surfaces hold, bend and pull many types of items in close quarters. Length, $4\frac{3}{4}$ ". Weight, .10 Lb. **No. 282G**—Fitted with "Handeze" plastic grips. Weight, .11 Lb.

No. 283 Midget Round Nose Plier

Both jaws are rounded with a small surface and form very accurate rings, loops and bends on all kinds of soft wire. Length, $4\frac{1}{2}$ ". Weight, .10 Lb. **No. 283G**—Fitted with "Handeze" plastic grips. Weight, .11 Lb.

No. 284 Midget End Cutting Nipper

Has necessary leverage and sharp, induction-hardened edges for cutting small wires, connectors, bolts, rivets and other objects. Cuts flush or close to the surface. Length, 4". Weight, .10 Lb. **No. 284G**—Fitted with "Handeze" plastic grips. Weight, .11 Lb.

No. 285 Midget Diagonal Cutting Plier

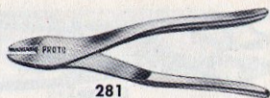
Sharp, induction-hardened edges easily cut all types of small wire, coils, etc. Narrow jaws get into tight places. Length, 4". Weight, .08 Lb. **No. 285G**—Fitted with "Handeze" plastic grips. Weight, .10 Lb.

No. 286 Midget Flat Nose Plier

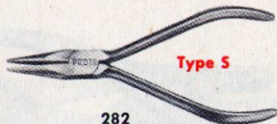
Flat jaws provide good grip for holding, forming and bending wire and flat stock. Narrow jaws get into restricted area. Length, $4\frac{3}{4}$ ". Weight, .09 Lb. **No. 286G**—Fitted with "Handeze" plastic grips. Weight, .10 Lb.

No. 291 Lever Wrench Plier

Five tools in one—a powerful hand vise, clamp, adjustable wrench, pipe wrench and plier. Lever action locks jaws in holding position with pressure up to 1 ton. Compact design, but has capacity of $1\frac{1}{2}$ ". Length, 8". Weight, .94 Lb.

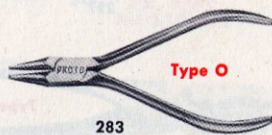


281



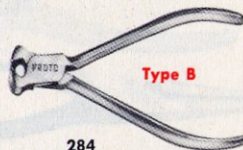
282

Type S



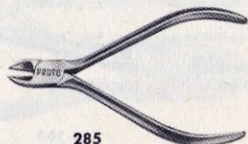
283

Type O

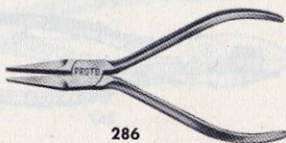


284

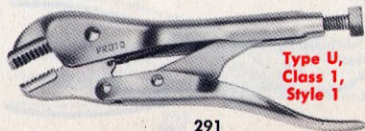
Type B



285



286



291

Type U,
Class 1,
Style 1

PLIERS

No. 298 Wire Stripper

V notches nick insulation for clean, fast stripping of wire. Face ground edges cut soft wire up to No. 14 gauge. Length, 5". Weight, .10 Lb. No. 298A—Merchandise for dealers. Displays twelve No. 298 Strippers. Weight, 1.62 Lbs.

298

"Handeze" Plastic Grips for Tool Handles

Red vinyl plastisol grips that enhance appearance, increase gripping power and reduce muscle fatigue. They slip on easily, fit tight, wear long, and are replaceable. Many pliers are available with factory-fitted "Handeze" grips.

200S



Plier Fitted with "Handeze" Grips

†NO.	SIZE	FIT PLIERS	INS. DIAM.	LGTH.	WEIGHT
200S	Small	4" to 6"	$\frac{1}{4}$ "	3"	.02 Lb.
200M	Medium	6" to 8"	$\frac{3}{16}$ "	4"	.04 Lb.
200L	Large	8" to 12"	$\frac{3}{8}$ "	5"	.05 Lb.

†Covers Pair of Grips, Packed in Cellophane Envelope.

No. 200A—Merchandise for dealers. Displays six No. 200S, twenty-four No. 200M and six No. 200L pairs of "Handeze" grips. Weight, 2.3 Lbs.

ALL-PURPOSE SNIPS

Federal Specs.: GGG-5-291c.

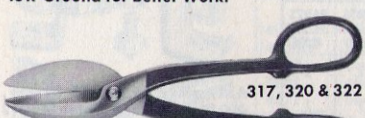
Eleven styles and sizes fill needs of industries, mechanics, craftsmen, farmers and home owners. They cut steel, tin, sheet metals, wire, linoleum, canvas, gaskets, roofing, rubber, twine, leather, cardboard, shrubs, flowers and hundreds of other items. Scientifically designed, they give smooth, fast, accurate cuts with little effort, and produce better finished work, clean and unbent. Blades of special steel are hot drop forged for great strength and toughness. Electrically controlled heat treating and tempering give the blades in each snip the same hardness, essential for proper operation and long life.

Multiple-Leverage or Aviation Snips—For Intricate Cutting. Compound Action Greatly Increases Power.



303S—Straight Cut. Also in Left Cut & Right Cut

Duckbill or Circular Snips—For Cutting Circles and Other Odd Designs. Blades Hollow Ground for Better Work.



317, 320 & 322

Straight or Regular Snips—Handy for Shops, Farms, Homes. Streamlined with Graceful Curves, Rounded Edges.



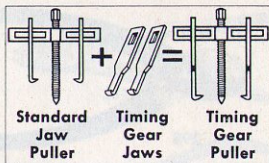
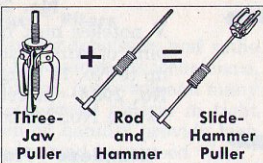
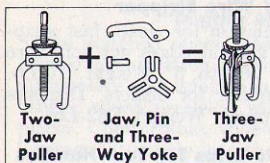
330 & 332

Combination Snips—For Straight and Moderately Irregular Cuts.

NO.	DESCRIPTION	OVER-ALL LGTH.	LGTH. OF CUT	WT. LBS.
303L	Multi-Leverage, Left Cut	$9\frac{11}{16}$ "	$1\frac{1}{16}$ "	.71
*303LG	Multi-Leverage, Left Cut	$9\frac{3}{4}$ "	$1\frac{1}{16}$ "	.90
303R	Multi-Leverage, Right Cut	$9\frac{11}{16}$ "	$1\frac{1}{16}$ "	.71
*303RG	Multi-Leverage, Right Cut	$9\frac{3}{4}$ "	$1\frac{1}{16}$ "	.90
303S	Multi-Levrg., Straight Cut	$9\frac{7}{8}$ "	$1\frac{1}{8}$ "	.71
*303SG	Multi-Levrg., Straight Cut	$9\frac{15}{16}$ "	$1\frac{1}{8}$ "	.90
307	Duckbill or Circular	7"	$1\frac{3}{8}$ "	.41
310	Duckbill or Circular	10"	$2\frac{1}{2}$ "	.88
312	Duckbill or Circular	$12\frac{3}{4}$ "	3"	1.56
317	Straight or Regular	7"	$1\frac{3}{4}$ "	.42
320	Straight or Regular	10"	$2\frac{1}{2}$ "	.98
322	Straight or Regular	$12\frac{3}{4}$ "	3"	1.47
330	Combination Pattern	10"	$2\frac{1}{2}$ "	.82
332	Combination Pattern	$12\frac{3}{4}$ "	3"	1.46

*Fitted with "Handeze" plastic grips.

MORE JOBS WITH FEWER PULLER PARTS



Many puller lines are so designed that a special puller is needed for every type of job, requiring an enormous investment. If you standardize on PROTO pullers, you can take care of almost all jobs with a relatively few parts. The reason is that these puller parts are interchangeable.

For example, a light-duty two-jaw puller can be converted into a three-jaw type by adding a three-way yoke, pin and jaw.

Either a two-jaw or three-jaw light-duty puller can be quickly changed to a slide-hammer type by replacing the screw with

a T-handled rod and hammer. Likewise, the slide-hammer puller can be converted to a light-duty type by adding one screw.

This same screw is used in PROTO medium-duty pullers, so a light-duty puller can be changed to a medium-duty type by adding a crossarm and two jaws.

Regular heavy-duty jaws can be replaced by cap screw or timing gear jaws. All of these jaws are for inside or outside pulling.

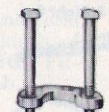
In buying pullers, remember that parts interchangeability means more jobs with fewer parts—and less cost to you.

UNIVERSAL WHEEL HUB PULLERS

This puller is the simplest and fastest made for hubs and many other pulling requirements. It pulls hubs of most light trucks and cars, including older model Fords (by using adapter shown). The No. 4001J legs are drilled for $\frac{9}{16}$ " studs and are quickly adjustable to any drum with 3, 4, 5, 6 or 7 studs in a circle up to $6\frac{1}{2}$ " diameter. The No. 4001JT legs accommodate larger $\frac{3}{4}$ " studs and are adjustable on drums in a circle up to 8" diameter.

Wheel Hub Puller Parts and Sets

NO.	DESCRIPTION	WT., LBS.	PARTS IN SET 4001	PARTS IN SET 4001A	PARTS IN SET 4000D	PARTS IN SET 4000E
4001B	Puller Body, $6\frac{3}{4}$ " Long...	3.6	1	1	1	1
4001S	1" Puller Screw, 8" Long, with 4001ST Tip.....	1.43	1	1	1	1
4001ST	Detachable Tip for 4001S Screw.....	.06	----	----	----	----
4001J	Leg— $1\frac{1}{16}$ " Leg Offset to Clear Hubs, $3\frac{7}{8}$ " from Crossarm to Offset.....	1.00	3	3	3	3
4001JT	Leg— $1\frac{1}{4}$ " Leg Offset to Clear Hubs, $3\frac{7}{8}$ " from Crossarm to Offset.....	1.00	----	----	----	----
4001R	Older Ford Adapter Ring.	.64	1	1	----	----
4001C	Older Ford Adapter Cap Screw, $4\frac{1}{2}$ " Long.....	.38	2	2	----	----
4001T	Steel Box, $8\frac{1}{4}$ "x $8\frac{1}{2}$ "x $1\frac{1}{2}$ "	2.2	----	1	----	1
Set Weight, Lbs.			9.8	12	9.3	10

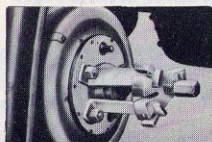


4001R Ford Adapter Ring and Two 40-01C Screws for Older Model Fords

Federal
Specs.:
GGG-
P-781.



Assembly of 4001S Screw, 4001B Body and Three 4001J Legs. Detachable Tip Keeps Screw on Center and Reduces Danger of Spreading or Splitting of Axles.



Pulling a Wheel Hub

SLIDE-HAMMER PULLERS

Federal Specs.: GGG-P-781.

All puller parts listed on Pages 56-61 are made from special alloy steel.

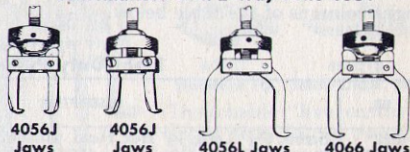
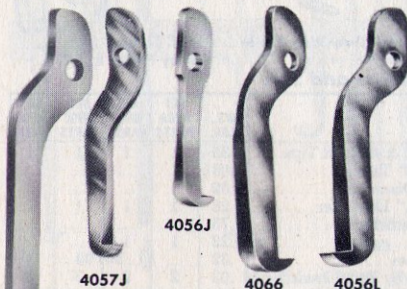


No. 4056 Multi-Purpose Slide-Hammer Puller

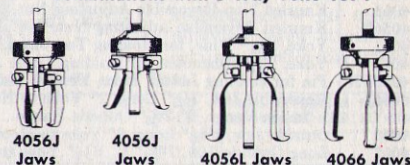
No. 4056A Pilot Bearing Puller, for $\frac{3}{8}$ "-1 $\frac{1}{4}$ " Bearings

Set 4056 removes bearing cups, sleeves, retainers, axles, etc. For contents of sets, see table below.

Combinations with 2-Way Yoke 4061



Combinations with 3-Way Yoke 4071



Slide-Hammer Puller Parts and Sets

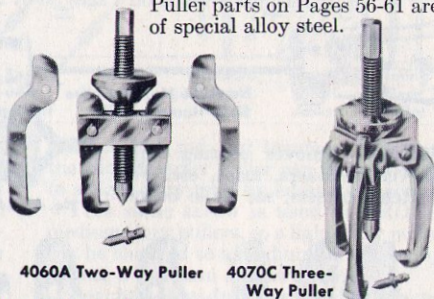
NO.	DESCRIPTION	WT., LBS.	SET 4056 PARTS	SET 4056A PARTS
†4056R	T-Handled Rod, 24" Long	1.90	1	.....
†4056RS	Short Rod, 12 $\frac{3}{8}$ " Long, for Close Places and for Assembling Valve or Blind Bearing Puller	.96	.....	1
†4056H	Sliding Hammer with Fluted Grip	2.7	1	1
†4056N	Knurled Reversible Adjusting Nut, 2 $\frac{1}{2}$ " Diam.	.75	1	1
4063	Knurled Non-Reversible Adjusting Nut, 1 $\frac{3}{4}$ " Dia.	.28	.....	.....
4061	Yoke, 2 $\frac{1}{2}$ " Wide, for Holding Two Jaws	.23	.....	1
4071	Yoke, 2 $\frac{1}{2}$ " Diameter, for Holding Three Jaws	.32	1	.....
†4056PN	Pin for Holding Jaw in Yoke	.03	3	2
4056C	Slotted Cap Screw Pulling Crossarm, 6" Wide	1.10	.....	.....
4056J	Reversible Jaw, 3 $\frac{1}{2}$ " Long, 2" Yoke to Hook, 1 $\frac{5}{32}$ "-4 $\frac{1}{8}$ " Inside and 0"-2 $\frac{29}{16}$ " Outside Ranges	.11	3	.....
4057J	Long Reversible Jaw, 4 $\frac{3}{16}$ " Long, 3 $\frac{5}{16}$ " Yoke to Hook, 1 $\frac{1}{8}$ "-3" Inside and 0"-5" Outside Ranges	.18	.....	.....
4058J	Ins. Jaw, 3 $\frac{1}{8}$ " L., 1 $\frac{1}{4}$ " Yoke to Hook, 1"-2 $\frac{1}{4}$ " Range	.10	.....	2
4056L	Ins. Jaw, 4 $\frac{9}{16}$ " L., 3" Yoke to Hook, 1 $\frac{5}{8}$ "-6 $\frac{3}{4}$ " Range	.21	.....	.....
4066	Outs. Jaw, 4 $\frac{1}{8}$ " L., 3" Yoke to Hook, 0"-5 $\frac{5}{16}$ " Range	.21	.....	.....
4067	Long Outside Jaw, 7 $\frac{23}{32}$ " Long, 6 $\frac{1}{8}$ " Yoke to Hook, 0"-8 $\frac{3}{4}$ " Range	.30	.....	.....
4056S	Single Jaw, 2 $\frac{1}{16}$ " L., for Wheel Alignment, Brakes, Pulling Grease Retainers, Small Bearings, etc.	.17	.....	.....
†Shown in Illustration at Top of Page.		Set Weight, Lbs.	6.5	4.9

LIGHT-DUTY PULLERS

Federal Specs.: GGG-P-781.

These small pullers are designed to pull little gears, pulleys, bearings, etc., quickly and easily. The narrow jaws get into very close places. Adjusting nut No. 4063 holds the jaws firmly in position so they can't slip. If adjusting nut No. 4056N is substituted, the short jaws can be reversed and used for inside pulling. Any $\frac{1}{2}$ " opening wrench can be used on the screw's hex. head. Two two-way and two three-way puller sets are available. Parts included in these sets are shown in the right columns of the table below.

Puller parts on Pages 56-61 are of special alloy steel.



4060A Two-Way Puller

4070C Three-Way Puller

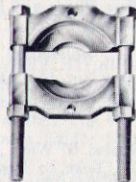
Light-Duty Puller Parts and Sets

NO.	DESCRIPTION	WT., LBS.	SET 4060A PARTS	SET 4060E PARTS	SET 4070C PARTS	SET 4070E PARTS
4022	Screw, $6\frac{3}{4}$ " Long, $\frac{1}{2}$ " Hex. Head, with 4022T & 4022TS Tips...	.35	1	1	1	1
4022T	Standard Detachable Tip for 4022 Screw, 60° Taper...	.03				
4022TS	Small Detachable Tip for 4022 Screw, $\frac{1}{4}$ " Diameter...	.02				
4063	Knurled Non-Reversible Adjusting Nut, $1\frac{1}{4}$ " Diameter...	.28	1	1	1	1
4056N	Knurled Reversible Adjusting Nut, $2\frac{1}{2}$ " Diameter...	.75				
4061	Yoke, $2\frac{1}{2}$ " Wide, for Holding Two Jaws...	.23	1	1		
4071	Yoke, $2\frac{1}{2}$ " Diameter, for Holding Three Jaws...	.32			1	1
4056PN	Pin for Holding Jaw in Yoke, Held in Place by Ball Check...	.03	2	2	3	3
4056J	Reversible Jaw, $3\frac{1}{2}$ " Long, 2" Yoke to Hook, $1\frac{1}{2}$ "-4 $\frac{1}{8}$ " Inside Range, 0"-2 $\frac{3}{16}$ " Outside Range...	.11	2	2		
4066	Outside Jaw, $4\frac{1}{2}$ " Long, 3" Yoke to Hook, 0"-5 $\frac{3}{16}$ " Range...	.21	2		3	
4067	Long Outside Jaw, $7\frac{23}{32}$ " L., 6 $\frac{1}{8}$ " Yoke to Hook, 0"-8 $\frac{3}{4}$ " Range...	.30		2		3
Set Weight, Lbs.			1.75	1.92	1.94	2.4

Additional Jaws That Can Be Used with Light-Duty Pullers are Listed on the Preceding Page.

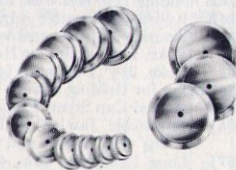
SEPARATOR-PULLER AND STEP PLATES

No. 4032 Bearing Separator and Puller Attachment



Flat surfaces and knife-like edges permit adjustment behind many gears, bearings, etc., where space is too limited for heavy puller hooks. Protects expensive bearings. Width, $5\frac{13}{16}$ ". Maximum opening, $4\frac{1}{2}$ ". Wt., 4.4 Lbs. Parts: Top Plate-4032A. Bottom Plate-4032B. Bolt and Nut-4032S.

Step Plate Adapters



Used on hollow shafting or housings as a base for a puller screw when forcing off bushings, gears, etc. Also useful for installing oil seals. Eleven sizes at left above comprise Set No. 4040.

NO.	SMALL DIAM.	LARGE DIAM.	WT., LBS.
4040-1	$\frac{3}{4}$ "	1"	.05
4040-2	$\frac{7}{8}$ "	$1\frac{1}{8}$ "	.08
4040-3	1"	$1\frac{1}{4}$ "	.10
4040-4	$1\frac{1}{8}$ "	$1\frac{3}{8}$ "	.13
4040-5	$1\frac{1}{4}$ "	$1\frac{5}{8}$ "	.19
4040-6	$1\frac{3}{8}$ "	$1\frac{7}{8}$ "	.22
4040-7	$1\frac{1}{2}$ "	$1\frac{7}{8}$ "	.28
4040-8	$1\frac{5}{8}$ "	2"	.33
4040-9	$1\frac{3}{4}$ "	$2\frac{1}{8}$ "	.40
4040-10	$1\frac{7}{8}$ "	$2\frac{3}{8}$ "	.49
4040-11	2"	$2\frac{1}{2}$ "	.59
4040-12	$2\frac{1}{8}$ "	$2\frac{5}{8}$ "	.65
4040-13	$2\frac{1}{4}$ "	$2\frac{3}{4}$ "	.76
4040-14	$2\frac{3}{8}$ "	$2\frac{7}{8}$ "	.83

No. 4040 Set

Eleven Step Plates, 4040-1 to 4040-11. Wt., 3.0 Lbs.

MEDIUM AND HEAVY-DUTY PULLERS

Federal Specs.: GGG-P-781.

Provide straight line pulling for all types of bearings, sprockets, gears, pulleys, wheels, hubs, etc. Springs hold quick-change jaws securely on crossarm, which is marked to show the inches jaws are apart. With no linkage or pins to adjust, they are easy to set up. Five jaws have hole for bolting together and extending reach.

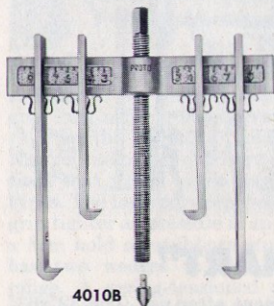
4020C
For Harmonic Balancer



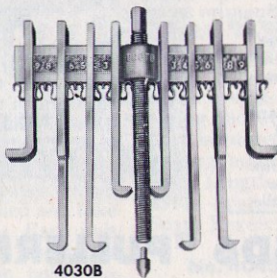
Assemblies,
Timing
Gears, etc.



4020A



4010B



4030B



4022T

Standard Tip



4022TS

Small-Diam. Tip

Detachable "live center" screw tips do not rotate when a screw is turned, preventing shaft damage, keeping screw on center, relieving screw strain and retaining better alignment.

Medium-Duty Puller Parts and Sets

NO.	DESCRIPTION	WT. LBS.	PARTS IN SET 4020A	PARTS IN SET 4020B	PARTS IN SET 4020C
4021	Crossarm, 7" Long, with Jaw-Positioning Guide.....	1.00	1	1	....
4021S	Spring for Jaws 4025, 4026 and 4027.....	.01	....	....	....
4056C	Cap Screw Crossarm, 6" Wide.....	1.10	....	....	1
4022	Screw, 6 $\frac{3}{4}$ " Long, $\frac{1}{2}$ " Hex. Head, with 4022T & 4022TS Tips.....	.35	1	1	1
4022T	Standard Detachable Tip for 4022 Screw, 60° Taper.....	.03	....	....	....
4022TS	Small Detachable Tip for 4022 Screw, $\frac{1}{4}$ " Diameter.....	.02	....	....	....
†4025	Jaw, 2" from Crossarm to Hook.....	.33	2	2	....
†4026	Jaw, 4" from Crossarm to Hook.....	.50	2	2	....
4027	Narrow Jaw, 4" from Crossarm to Hook.....	.35	....	....	....
4028	Cap Screw, Case Hardened, 3" Long.....	.10	....	....	2
4029	Steel Box, 7"x7"x1 $\frac{1}{4}$ ".....	1.74	1	....	....
Set Weight, Lbs.			5.0	3.2	1.76

Heavy-Duty Puller Parts and Sets

NO.	DESCRIPTION	WT. LBS.	PARTS IN SET 4010B	PARTS IN SET 4010C	PARTS IN SET 4030A	PARTS IN SET 4030B
4011	Crossarm, 11" Long, with Jaw-Positioning Guide.....	2.7	1	1	1	1
4011S	Spring for Jaws 4015, 4016, 4017 and 4018.....	.02	....	....	....	....
4012	Screw, 11 $\frac{1}{16}$ " Long, $\frac{5}{8}$ " Hexagon Head, with 4012T Tip.....	1.20	1	1	1	1
4012T	Standard Detachable Tip for 4012 Screw, 60° Taper.....	.06	....	....	....	....
†4015	Jaw, 4 $\frac{3}{4}$ " from Crossarm to Hook.....	.94	2	2	2	2
†4016	Jaw, 7 $\frac{1}{16}$ " from Crossarm to Hook.....	1.26	2	....	2	2
4017	Timing Gear Jaw, 7 $\frac{1}{16}$ " from Crossarm to Hook.....	1.14	....	....	2	2
†4018	Cap Screw Jaw, 3" from Crossarm to Hook.....	.88	....	2	2	2
4019	Steel Box, 11 $\frac{1}{8}$ "x11 $\frac{3}{4}$ "x1 $\frac{1}{4}$ ".....	4.1	....	....	1	....
Set Weight, Lbs.			8.5	7.7	17	13

†Has Extra Hole Near Hook for Bolting Jaws Together. Saves Buying Expensive Long-Reach Jaws.

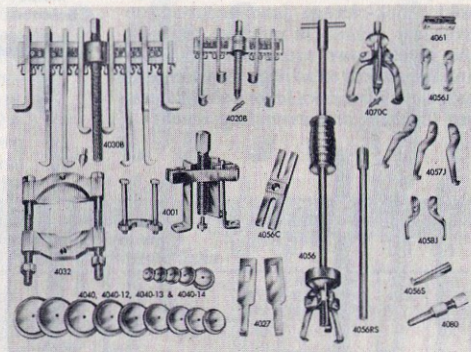
NO. 4000AB MASTER PULLER SET

Ideal for most types of vehicle and equipment repair shops and for

Contents

NO.	QUANTITY	DESCRIPTION
4030B	1	Heavy-Duty Puller
4020B	1	Medium-Duty Puller
4056	1	Slide-Hammer Puller
4070C	1	Light-Duty Puller
4056J	2	Reversible 3½" Jaw
4061	1	Yoke for Two Jaws
4001	1	Universal Wheel Puller
4032	1	Bearing Separator
4040	1	Step Plate Adapter Set
4040-12	1	Step Plate Adapter
4040-13	1	Step Plate Adapter
4040-14	1	Step Plate Adapter
4027	2	Narrow Jaw
4056C	1	Cap Screw Crossarm
4056RS	1	Short Puller Rod
4056S	1	Single Puller Jaw
4057J	3	Reversible 4½" Jaw
4058J	2	Pilot Bearing Jaw
4080	1	Blind Bearing Puller

maintenance departments in many industries. Makes an extremely large number of puller set-ups, due to parts interchangeability, and handles hundreds of pulling operations. Weight, 52 Lbs.



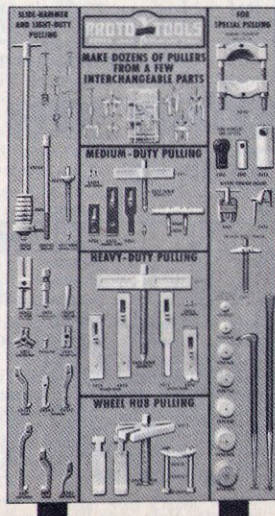
NO. SD6 "PULLERMART"

Designed both as a merchandiser for dealers and as a master set for garages, other repair shops and industrial plants that use all types of pullers. Parts are arranged on the storage rack in "exploded" fashion and are located in proper order for assembly. Also, ten types of assemblies are shown by drawings. With this system, the interchangeable parts can be used in a great many set-ups, eliminating the need for a large number of costly special pullers. Sections of the rack include basic parts used for five types of pulling—slide-hammer and light-duty, medium-duty, heavy-duty, wheel hub, and special. Outlines and numbers of parts facilitate their replace-

ment after use. The 32"x63" rack of ½" plywood has an easel back. Weight, 110 Lbs.

Contents

NO.	QU.	DESCRIPTION	NO.	QU.	DESCRIPTION
2124	1	Utility Pry Bar	4056	1	Slide-Hamr. Puller
2130	1	Rolling Head Bar	4056C	2	Slotted Crossarm
4001	1	Wheel Puller Set	4056L	3	Long Inside Jaw
4001JT	3	Wheel Puller Leg	4056RS	1	Short Rod
4011S	2	Spring for Jaw	4056S	1	Single Jaw Puller
4020B	1	Medium Puller Set	4057J	3	Long Revers. Jaw
4021S	2	Spring for Jaw	4058J	3	Pilot Bearing Jaw
4022	1	Med. Puller Screw	4061	1	Two-Way Yoke
4027	2	Narrow Jaw	4063	1	Adjusting Nut
4028	2	Cap Screw	4066	3	Long Outside Jaw
4030B	1	Heavy Puller Set	4067	3	Long Outside Jaw
4032	1	Bearing Separator	4080	1	Blind Brg. Puller
4040-1-14	1	14 Step Plates	4510	1	Pwr. Stud Remvr
4041	1	Small Utility Puller	4515	1	Stud Remover
4042	1	Bat. Term. Puller	4532	1	Stud Remover
4043	1	Strg. Wheel Puller	.....	1	Storage Rack



SPECIAL-PURPOSE PULLERS

All puller parts listed on Pages 56-61 are made from special alloy steel.

Manual Stud Removers and Setters

Federal Description: "Stud Remover and Setter, Wedge." **Specs.:** GGG-5-775, Type IV, Settle 1.



4515 & 4532

Wedge type removers and setters are far superior to the eccentric roller type. They give long service, handle very short studs ($\frac{3}{4}$ " for the No. 4515), and have a small turning radius which clears many obstructions that would block operation of other types. The tapered, deeply-serrated wedges grip tighter as pressure is applied and take a firm hold on stubborn studs. Each unit has two wedges to increase the usable range. A spring-tensioned pin holds the wedges in the body when not in use. No. 4515 is $1\frac{3}{16}$ " in diameter and $3\frac{1}{2}$ " long. No. 4532 is 2" in diameter and $5\frac{1}{8}$ " long.

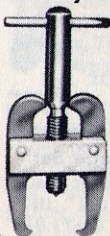
STANDARD $\frac{1}{2}$ " SQUARE DRIVE

NO.	DESCRIPTION	FOR STUDS	WT., LBS.
4515	Stud Remover	$\frac{1}{4}$ "- $\frac{5}{8}$ "	.78
4516	Thick Wedge Only	$\frac{1}{4}$ "- $\frac{3}{16}$ "	.07
4517	Thin Wedge Only	$\frac{1}{2}$ "- $\frac{5}{8}$ "	.04

HEAVY-DUTY $\frac{3}{4}$ " SQUARE DRIVE

4532	Stud Remover	$\frac{5}{8}$ "-1"	3.4
4533	Thick Wedge Only	$\frac{5}{8}$ "- $\frac{3}{4}$ "	.34
4534	Thin Wedge Only	$\frac{3}{4}$ "-1"	.18

Battery Terminal and Bearing Pullers



4041
Wt., .65 Lb.

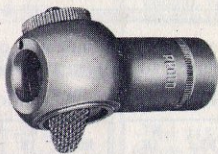
Remove terminals quickly and easily, without damaging posts. No. 4041, a conventional type, can be used for small bearings and other jobs. No. 4042, an unusual type, costs less and is faster to set up and use.



4042
Wt., .44 Lb.

No. 4510 Power-Type Stud Remover and Setter

Concentric hole with a wedge—the most efficient, fastest design available. Extra husky for turning $\frac{3}{8}$ " to $\frac{5}{8}$ " studs and bolts with $\frac{1}{2}$ " drive power guns or manual socket handles. Single, reversible wedge is forced against stud by a spring—saving time and preventing accidents from manual adjustment. A screw keeps wedge from falling out. Plunger, spring and wedge are mounted in a sleeve that is turned by a knurled knob for reversing action. File-type teeth dig into stud. Length, $3\frac{1}{2}$ ". Weight, 1.00 Lb. No. 4511—Spare Wedge Assembly. No. 4512—Spare Revolving Sleeve Assembly.



No. 4043 Steering Wheel Puller



Designed to remove drilled and tapped steering wheels, but ideal for many other cap screw pulling jobs. Holds two diametrically opposed cap screws, or three screws spaced 120° apart. Rotatable screw

tip is cut away to prevent interference with horn button wiring. Weight, 1.20 Lbs. No. 4043B—Spare Body. No. 4043S—Spare Screw with Tip. No. 4043T—Spare Tip.

No. 4080 Blind Bearing Puller



A simple, efficient collet-type puller for pulling Chevrolet, Ford and Packard pilot bearings quickly and without damage. Turning the screw expands outer shoulder and grips bearing. Has an exceptional range of expansion and many uses. Can be used alone or with No. 4056 slide-hammer puller. Length, $4\frac{1}{2}$ ". Weight, .34 Lb. No. 4080B—Spare Body. No. 4080S—Spare Screw.

FEELER GAUGES AND GAUGE SETS

Federal Specs.: GGG-G-17.

Standard Feeler Gauges

Accurately ground and correctly heat treated to remain true after long use.

Short Blades $\frac{1}{2}$ " Wide, $3\frac{1}{16}$ " Long

NO.†	WT. LB.	NO.†	WT. LB.	NO.†	WT. LB.
0015	.001	010	.004	018	.007
002	.001	011	.004	019	.007
003	.001	012	.004	020	.008
004	.002	013	.005	022	.009
005	.002	014	.005	025	.010
006	.003	015	.005	030	.011
007	.003	016	.006	032	.013
008	.004	017	.006	035	.014
009	.004			040	.016

Long Blades $\frac{1}{2}$ " Wide, 12" Long

NO.†	WT. LB.	NO.†	WT. LB.	NO.†	WT. LB.
0015L	.002	012L	.021	021L	.035
002L	.004	013L	.023	022L	.036
003L	.006	014L	.023	025L	.040
004L	.008	015L	.027	027L	.043
005L	.009	016L	.027	028L	.046
006L	.012	017L	.028	030L	.050
008L	.016	018L	.030	032L	.054
010L	.019	019L	.031	035L	.057
011L	.019	020L	.032	040L	.070

†No. Indicates Thickness in Thousandths of an Inch (Except 0015 and 0015L, Which Indicate Thickness in Ten Thousandths).

No. 000C Feeler Gauge Holder

For $3\frac{1}{16}$ " feeler gauge blades. Holds all available sizes. Weight, .05 Lb.

Step-Cut Feeler Gauges

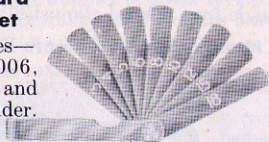
"Go and no-go" type, each blade having two different thicknesses. Width, $\frac{1}{2}$ ". Length, $3\frac{1}{4}$ ".

NO.†	WT. LB.	NO.†	WT. LB.
004/6	.002	013/15	.007
005/7	.003	014/16	.007
006/8	.003	015/17	.008
007/9	.004	016/18	.008
008/10	.004	017/19	.009
009/11	.004	018/20	.009
010/12	.006	019/21	.010
011/13	.006	020/22	.010
012/14	.006		

†No. Indicates Both Thicknesses in Thousandths of an Inch.

No. 000A Standard Feeler Gauge Set

Nine short blades—003, 004, 005, 006, 008, 010, 012, 015 and 018—in 000C holder. Wt., .09 Lb.

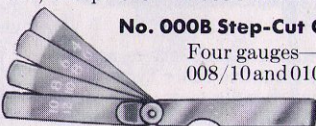


No. 000AA Standard Feeler Gauge Set

Master set, with 25 short blades—0015 through 040, except 019—in 000C holder. Wt., .19 Lb.

No. 000B Step-Cut Gauge Set

Four gauges—004/6, 006/8, 008/10 and 010/12—in 000C holder. Wt., .06 Lb.

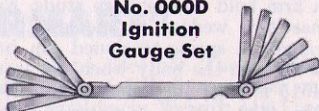


No. 000BB Step-Cut Gauge Set

Master set, with eight gauges—004/6 through 011/13—in 000C holder. Wt., .08 Lb.

Ten $\frac{3}{16}$ " wide by $1\frac{1}{2}$ " long blades—.013", .015", .017", .018", .020", .025", .030", .032", .035" and .040" thick—in holder. Wt., .03 Lb.

No. 000D Ignition Gauge Set



Blades not sold separately.

No. 000E Brake Gauge Set

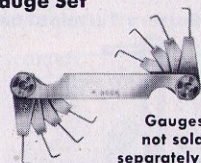
Nine $\frac{3}{16}$ " wide by 4" long blades—.006", .008", .010", .012", .014", .016", .018", .020" and .025" thick—in holder. Wt., .04 Lb.



Blades not sold separately.

No. 000K Spark Plug Gauge Set

For checking spark plug gaps. Eight bent-wire gauges—.022", .025", .027", .028", .030", .032", .035" and .040" thick—in holder. Wt., .06 Lb.



Gauges not sold separately.

No. 000M Bent Gauge Set

Eleven $\frac{1}{2}$ " by $4\frac{3}{16}$ " bent blades—.006", .008", .010", .011", .012", .013", .014", .015", .018", .019" and .020"—in holder and plastic pouch. Wt., .15 Lb.



SPECIAL-PURPOSE TOOLS

No. 370 All-Angle Drill

Fed. Specs.:
GGG-D-671a,
Type III.

Drills in close quarters, around obstructions, next to floors, etc. Chuck and handle turn in 270° and 180° arcs, respectively. Hollow handle stores drills. Chuck capacity, 0-7/8". Length, 11". Weight, 1.42 Lbs.
No. 370A—Merchandiser for dealers, with 3 No. 370 Drills. Weight, 5.1 Lbs. No. 370B—With 6 drills. Weight, 11 Lbs. No. 370C—With 12 drills. Weight, 21 Lbs.

No. 1730 Obstruction Box Wrench

Useful on many starters. Clearance at middle, 1". Box openings, 12-point, 9/16" x 5/8". Length, 6 3/4". Alloy steel. Weight, .20 Lb.

Brake Adjusting Tools

2006 2007

No. 2006 adjusts star nuts on two-shoe Bendix brakes. It is 9 1/16" long, has 1 3/4" spoons and weighs .30 Lb. No. 2007 is for Chevrolet brakes and other close places. It is 6 15/16" long, has 1 3/16" and 1 7/16" spoons and weighs .18 Lb. Both are alloy steel.

No. 2008 Chrysler Brake Wrench

Has 3/8" hex. socket for brake bleeder screw and 7/16" hex. socket for adjusting screw on late Chryslers and De Sotos. Clears tires. Alloy steel. Length, 7 3/16". Weight, .19 Lb.

No. 2009 Brake Bleeder Wrench

For Chevrolets, Fords and Lincolns with ball joint front end suspension. L-shaped handle has 3/16" hex. socket to remove bleeder screw cap and 3/8" hex. socket for turning screw. Alloy steel. Length, 6 3/4". Wt., .24 Lb.

Wheel Lug Nut Wrenches

Speedy, four-way rim wrenches, forged from special steel and finely balanced.

Hex. openings of 5/8", 3/4", 13/16" & 7/8" fit lug nuts of most cars and trucks. The extra length of the No. 2152 clears the deep fenders of all late model cars.

No. 2151
Length, 18".
Wt., 3.0 Lbs.

No. 2152
Length, 21 1/2".
Wt., 3.5 Lbs.

No. 2301 Muffler Removal Tool

A practical, simple and inexpensive tool for removing mufflers and tailpipes. Easy and safe to use. Makes quick work of taking off worn-out mufflers that are corroded, burned and hard to reach. Prevents damage to usable parts. Forged from special alloy steel. Length, 6 1/8". Weight, .29 Lb.

No. 2315 Piston Ring Compressor

Single-band type, designed for low-horsepower, small-bore engines used on auxiliary power plants and pumping stations, lawn mowers, outboard motors, bicycles, etc. Range, 2" to 5". Band width, 1 3/4". Weight, .32 Lb.

No. 2316 Piston Ring Compressor

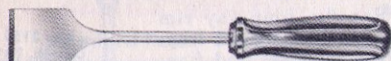
Band-operating ratchet prevents breakage and slippage. Wide band (3 1/2") has 2 3/16" to 5" range. Ell handle included. Weight, .70 Lb.

No. 2335 Valve Guide Cleaner

Turning a nut adjusts the five flexible blades to any valve guide size. Length, 9 3/4". Weight, .10 Lb. Extra blade—2335B.

SPECIAL-PURPOSE TOOLS

No. 2336 Gasket Scraper



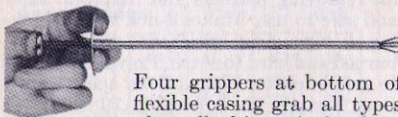
For removing shellacked gaskets, scraping carbon and many other uses. Has handle of tough, fire-resistant plastic, and round blade of special alloy steel. Length, 10 $\frac{3}{8}$ ". Blade width, 1 $\frac{1}{2}$ ". Weight, .41 Lb.

No. 2337 Flexible Carbon Scraper



Sliding band regulates the flexibility of the ten round spring steel blades. Length, 9". Width, 1". Weight, .30 Lb.

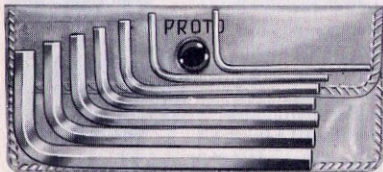
Grab-All Retrieving and Holding Tools



Four grippers at bottom of flexible casing grab all types of small objects in hard-to-reach places. These tools bend around obstructions and hold both metallic and non-metallic items—two big advantages over magnet rod types. Grab-Alls are useful for holding small things, for fishing objects out of garbage disposers, sinks and drains, and for retrieving nuts, cotter keys, etc., that fall into tight spots.

NO.	LENGTH	WT., LBS.	NO.	LENGTH	WT., LBS.
2340	12"	.12	2342	18"	.16
2341	15"	.14	2343	24"	.20

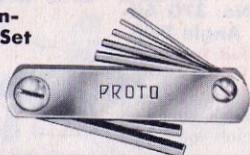
No. 4977 Allen-Type Wrench Set



Handy 2"x4 $\frac{1}{2}$ " plastic case, containing seven plated L-type hexagon keys for turning Allen head, socket head and hollow head screws. Sizes— $\frac{5}{64}$ " (fits No. 8 set screws), $\frac{3}{32}$ " (No. 10), $\frac{1}{8}$ " ($\frac{1}{4}$ "), $\frac{3}{32}$ " ($\frac{3}{16}$ "), $\frac{3}{16}$ " ($\frac{3}{8}$ "), $\frac{1}{2}$ " ($\frac{1}{2}$ " and $\frac{1}{4}$ " ($\frac{1}{2}$ ")). Weight, .21 Lb.

No. 4978 Allen-Type Wrench Set

Pocket-knife type 3" metal case, with seven hex keys for Allen head,



socket head and hollow head screws. Sizes —.050 (fits No. 4 set screws), $\frac{1}{16}$ " (Nos. 5 and 6), $\frac{5}{64}$ " (No. 8), $\frac{3}{32}$ " (No. 10), $\frac{1}{8}$ " ($\frac{1}{4}$ " and $\frac{3}{16}$ "), and $\frac{3}{16}$ " ($\frac{3}{8}$ ")). Weight, .16 Lb.

Spark Plug Holding Sockets



Patented rubber insert (shown in the cutaway view) holds any 14-mm. spark plug securely in socket during installation or removal. This feature speeds work on late V8 overhead valve



Cutaway View

engines and helps prevent the burning of fingers on hot manifolds. Sockets with a $\frac{13}{16}$ " hex. opening are available in $\frac{3}{8}$ " and $\frac{1}{2}$ " square drives. Both sockets have a $\frac{3}{4}$ " male plug for turning with a flat wrench. They are made of special alloy steel and chrome plated.

A big advantage of the rubber insert is that it permits use of extension bars for hard-to-reach plug locations and all types of socket handles, including torque wrenches. For accurate, uniform torquing of spark plugs—necessary for satisfactory work and a "must" for the new gasketless plugs—use a plug-holding socket and a PROTO Torquer (see Page 67).

NO.	DRIVE SIZE	NOMINAL OPENING	LENGTH	WT., LBS.	SPARE INSERT NO.
5026HP	$\frac{3}{8}$ "	$\frac{13}{16}$ "	2 $\frac{5}{16}$ "	.24	5026R
5326HP	$\frac{1}{2}$ "	$\frac{13}{16}$ "	2 $\frac{5}{16}$ "	.22	5026R

Heavy-Duty Screwdriver Sockets



For drag links and screw adjustments on steering assemblies, shock absorbers, starters, etc. Made from special alloy steel.

NO.	DRIVE	BIT SIZE	LGTH.	LBS.
5244	$\frac{3}{8}$ "	$\frac{5}{8}$ " x .116"	1 $\frac{1}{4}$ "	.08
5444	$\frac{1}{2}$ "	$\frac{3}{4}$ " x .115"	1 $\frac{3}{16}$ "	.14
5446	$\frac{1}{2}$ "	1 $\frac{5}{16}$ " x .154"	1 $\frac{3}{16}$ "	.20

SPECIAL-PURPOSE TOOLS

Connecting Rod Sockets



6522

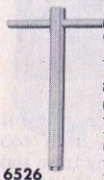
Thin nose, hexagon, $\frac{1}{2}$ " drive sockets. No. 6523 is for Ford V8s and 6522 for La Salles and Cadillac. Alloy steel



6523

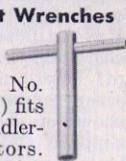
NO.	OPENG.	LGTH.	WT., LB.
6522	$\frac{7}{16}$ "	$1\frac{5}{8}$ "	.13
6523	$\frac{9}{16}$ "	$1\frac{7}{8}$ "	.11

Carburetor Jet Wrenches



6526

Turn jets quickly, without damaging soft jet material. No. 6526 (Wt., .07 Lb.) fits Holley and Chandler-Groves carburetors. No. 6528 (Wt., .06 Lb.) fits most Strombergs. Made of alloy steel.



6528

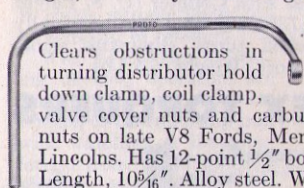
No. 6535 Distributor Point Socket



For late Chevrolets. Two prongs turn the housing terminal screw. Drive, $\frac{1}{4}$ ". Length, $1\frac{1}{16}$ ". Made of alloy steel. Weight, .02 Lb. No. 6535A—Dealer display with 12 No. 6535 Sockets. Weight, .64 Lb.

No. 6539 Ford V8-85 Valve Lifter

Long leverage breaks loose the toughest guides. Push guide down to remove keeper, and pry to force out guide. Stock, $\frac{3}{4}$ ". Length, 30". Alloy steel. Weight, 3.5 Lbs.



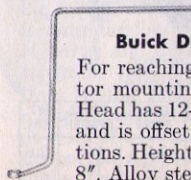
**No. 6540
Distributor
Wrench**

Clears obstructions in turning distributor hold down clamp, coil clamp, valve cover nuts and carburetor base nuts on late V8 Fords, Mercurys and Lincolns. Has 12-point $\frac{1}{2}$ " box opening. Length, $10\frac{3}{16}$ ". Alloy steel. Wt., .41 Lb.

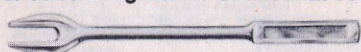
No. 6541

Buick Distributor Wrench

For reaching and turning distributor mounting bolt on late Buicks. Head has 12-point, $\frac{9}{16}$ " box opening and is offset $1\frac{7}{8}$ " to clear obstructions. Height, $10\frac{3}{16}$ ". Handle length, 8". Alloy steel. Weight, .57 Lb.



No. 6545 Drag Link & Shock Arm Tool

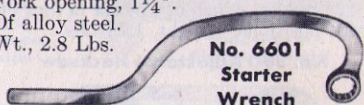


Slim, tapered fork is readily inserted to separate shock links and tie rods. Length, 16". Fork opening, $2\frac{1}{32}$ ". Made of special alloy steel. Weight, 2.3 Lbs.

No. 6546 Pitman Arm Pry Bar



Eliminates need for expensive pullers to remove Pitman arms. Useful also for pulling gears, bearings and pulleys, and lifting blocks and heavy assemblies. Length, 20". Fork opening, $1\frac{1}{4}$ ". Of alloy steel. Wt., 2.8 Lbs.



**No. 6601
Starter
Wrench**

For Plymouth, Dodge, DeSoto and Chrysler cars. Clears objects when removing or replacing starter. Has $\frac{5}{8}$ " box opening. Length, $9\frac{3}{4}$ ". Alloy steel. Weight, .35 Lb.



**Overhead Valve
Adjusters**

For accuracy, speed and ease when adjusting overhead valves. Using a $\frac{1}{2}$ " drive socket, loosen lock nut, turn alloy steel screwdriver with knob for adjustment (setting valve clearance with feeler gauges), and then tighten lock nut with handle while holding the screwdriver knob. Also used with clutch adjusting machines. No. 6734—For all 6-cylinder and many V8 overhead valve engines without hydraulic lifters. Has clearance for adjusting valves under fire wall on late 6-cylinder Chevrolets. Maximum bit length, $1\frac{3}{8}$ ". Weight, .33 Lb. No. 6734S—Spare Screwdriver Blade with Knob. No. 6734H—Spare Socket-Holding Spring with Screw. No. 6735—For late Ford, Mercury and other overhead valve engines. Maximum bit length of $3\frac{3}{8}$ " clears exhaust manifolds. Weight, .36 Lb. No. 6735S—Spare Screwdriver Blade with Knob.

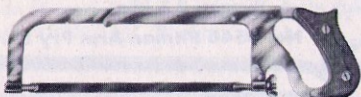
HACKSAWS

No. 344 Low-Clearance Hacksaw



For use where a high frame won't work. Sturdy. Takes 10" blades. Weight, .70 Lb.

No. 352 Adjustable Hacksaw



A heavy-duty polished and plated frame with many fine features. Pistol-grip handle, of durable red plastic, is at an angle and shaped to fit the hand. Takes 8", 10" or 12" blades, which can be set in four different positions. Weight, 1.72 Lbs.

No. 360 Adjustable Hacksaw



Inexpensive, but sturdy and serviceable. Pistol grip handle. Weight, 1.22 Lbs.

BARS

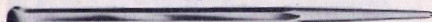
Conventional-Type Pry Bars



For countless prying and aligning jobs. Forged from special alloy steel and correctly heat treated for extra strength.

NO.	STOCK	LENGTH	WT., LBS.
2116	1 1/2" Hexagon	16"	.72
2120	1 3/4" Hexagon	18"	1.20
2124	2 1/4" Hexagon	24"	2.4

Rolling Head Bars



Fed. Description: "Pry Bar (Rolling Head)."
Specs. (No. 2126): GGG-B-101a, Type IX.

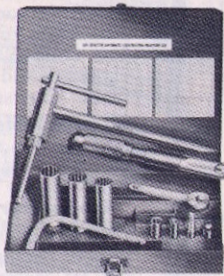
New type gear bar, with 90° rolling head. One of the handiest types of bars you can own, having a great many uses. Especially valuable for getting into close places, such as behind gears. Forged from alloy steel.

NO.	STOCK	LENGTH	WT., LBS.
2126	1 1/2" Hexagon	16"	.88
2130	1 3/4" Hexagon	18"	1.54

AUTOMATIC TRANSMISSION SETS

No. 2350 Band Adjusting Set

For all types of automatic transmissions. Saves hours. Simply torque adjusting nut to value given on copyrighted Uni-Adjuster chart, and back off adjusting screw amount shown on chart. Correct settings prevent slippage and seal overheating from too loose bands and improper shifting from too tight bands. Weight, 6.4 Lbs. Contents:

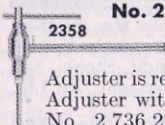


NO.	DESCRIPTION
....	Adjuster Chart
2355	Rear Servo Gauge
2356	Wrench, 5/8" Op.
2357	Band Adjuster
4710	Socket, 6-Pt., 5/16" Op., 1/4" Dr.
4710S	Socket, 8-Pt., 3/16" Op., 1/4" Dr.
4742	Allen Socket, 1/4" Hex., 1/4" Dr.

NO.	DESCRIPTION
4743	Screwdr. Sckt., 3/8" Bit, 1/4" Dr.
5318	Socket, 12-Pt., 9/16" Op., 1/2" Dr.
5320	Socket, 12-Pt., 5/8" Op., 1/2" Dr.
5324	Socket, 12-Pt., 3/4" Op., 1/2" Dr.
6061F	Torquer, 1/4" Dr.
....	Partitioned Box, 10 1/16" x 8" x 1 1/2"

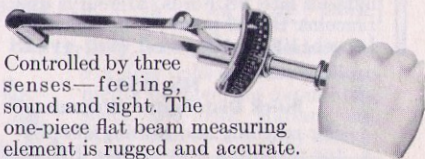
No. 2351 Band Adjusting Set

Same as Set No. 2350, except No. 2357 Band Adjuster is replaced by No. 2358 Band Adjuster with Counter (U. S. Patent No. 2,736,220) that automatically records backoff turns, eliminates errors and speeds work. Weight, 6.5 Lbs.



REFLEX TORQUERS

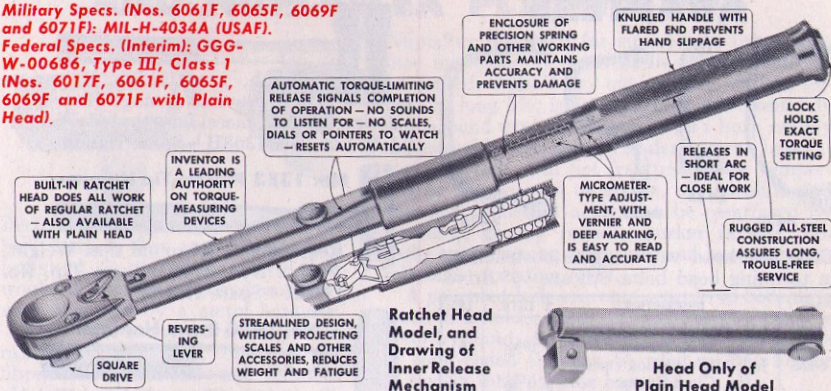
Controlled by three senses—feeling, sound and sight. The one-piece flat beam measuring element is rugged and accurate.



NO.	CAPACITY, FT.-LBS.	GRADUATIONS, FT.-LBS.	SQUARE DRIVE	TOTAL LENGTH	WT., LBS.
6025	0-25	1	3/8"	16"	2.6
6050	0-50	2 1/2	1/2"	16"	2.7

TORQUE-LIMITING WRENCHES

Military Specs. (Nos. 6061F, 6065F, 6069F and 6071F): MIL-H-4034A (USAF). Federal Specs. (Interim): GGG-W-00686, Type III, Class 1 (Nos. 6017F, 6061F, 6065F, 6069F and 6071F with Plain Head).



World's speediest are the amazing PROTO Torquers, which use a torque-limiting principle (release automatically at proper setting) instead of sound indicators, dials, pointers, scales, etc. They are super-fast, accurate, versatile, easy to use safe, and extra rugged.

Desired torque is set by turning handle like micrometer. When right torque is reached by pulling handle, wrench releases and signals with positive reflex action. It resets automatically upon removal of pressure.

With no external indicating devices, operators are spared eyestrain, nervous tension of coordinating pull with watching or listening, fatigue from handling heavy torquers, and possible reading errors. Absence of projecting devices, enclosure of parts, and all-steel construction provide freedom from trouble and long life.

Distinctive ratchet models do work of both a reversible ratchet and a torque wrench, saving time and money.

Foot-Pound Torque-Limiting Wrenches

NO.	CAPACITY, FT.-LBS.	GRADUATIONS, FT.-LBS.	SQUARE DRIVE SIZE	STYLE OF HEAD	MAXIMUM DRIVE END WIDTH	OVER-ALL LENGTH	WT., LBS.
6005	5-75	1/2	3/8"	Plain	15/16"	13 1/4"	1.34
6006	5-75	1/2	3/8"	Ratchet	15/16"	14 1/16"	1.54
6007	5-75	1/2	1/2"	Plain	15/16"	13 1/4"	1.34
6008	5-75	1/2	1/2"	Ratchet	15/16"	14 1/16"	1.54
6015	10-150	1	1/2"	Plain	1 1/16"	17 1/4"	2.0
6016	10-150	1	1/2"	Ratchet	1 1/16"	18 3/4"	2.5
†6017F	100-500	5	3/4"	Plain	2"	37"	9.3

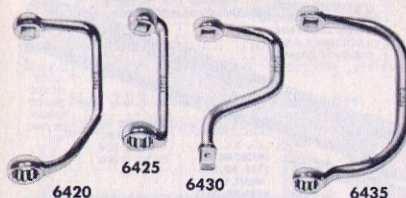
Inch-Pound Torque-Limiting Wrenches

NO.	CAPACITY, IN.-LBS.	GRADUATIONS, IN.-LBS.	SQUARE DRIVE SIZE	STYLE OF HEAD	MAXIMUM DRIVE END WIDTH	OVER-ALL LENGTH	WT., LBS.
†6061F	5-150	2	1/4"	Plain	7/8"	8 1/2"	.85
6065	100-750	5	3/8"	Plain	15/16"	13 3/4"	1.28
†6065F	100-750	5	3/8"	Plain	15/16"	13 3/4"	1.28
6066	100-750	5	3/8"	Ratchet	15/16"	14 1/16"	1.50
6067	100-750	5	1/2"	Plain	15/16"	13 1/4"	1.32
6068	100-750	5	1/2"	Ratchet	15/16"	14 1/16"	1.52
†6068F	100-750	5	1/2"	Ratchet	15/16"	14 1/16"	1.50
6069	700-1600	10	1/2"	Plain	1 1/16"	17 1/4"	2.0
†6069F	700-1600	10	1/2"	Plain	1 1/16"	17 1/4"	1.94
6070	700-1600	10	1/2"	Ratchet	1 1/16"	18 3/4"	2.5
†6071F	1000-4800	50	3/4"	Plain	2"	37"	9.3

†Model F torque-limiting wrenches are super-precision types, designed to meet the most exacting military and industrial requirements. They have a fixed head bearing pin, improved roller block, side adjusting seal, and handle end seal.

Light-duty Torquers are for instruments, aircraft parts, guided missiles, automatic transmissions, electronic equipment, etc. Heavy-duty models are for the manufacture and repair of cars, aircraft, diesel engines, power and construction equipment, etc.

TORQUE WRENCH ADAPTERS

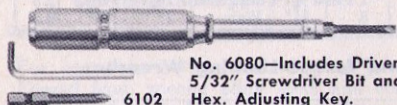


Clear overhead valve engine obstructions in torquing head bolts. All are $\frac{1}{2}$ " drive.

NO.	DESCRIPTION	LGTH.	LBS.
6420	$\frac{3}{4}$ ", 12-Point Box Opening, Wide Sweep	$6\frac{19}{32}$ "	.61
6425	$\frac{3}{4}$ ", 12-Point Box Opening, Close Sweep	$5\frac{17}{32}$ "	.43
6430	$\frac{1}{2}$ " Square Male Plug	$5\frac{1}{2}$ "	.50
6435	$1\frac{1}{16}$ ", 12-Point Box Opening	$7\frac{5}{16}$ "	.63

Uses: 6420—All Chevrolets. 6425—All Chevrolet Cars & Trucks, 1935-42 Series 60, 70, 80 & 90, & 1941-52 Series 40 & 50 Buicks. 6430—Power-Glide Chevrolets & General Uses. 6435—Fords, Mercurys, Studebakers & Pontiacs.

"MINI-TORQ" NUT & SCREW DRIVER



No. 6080—Includes Driver, 5/32" Screwdriver Bit and Hex. Adjusting Key.

Combines high speed and extreme accuracy on precision torquing operations from 4 to 80 inch-ounces, required in manufacture and repair of aircraft, electronic and other assemblies. Using torque-limiting principle, it releases automatically with ratcheting action when predetermined torque is reached and does not use indicators. Holds over 50 sizes and styles of available nut-turning sockets and screwdriver bits with $\frac{1}{4}$ " hex. male plug. PROTO No. 7102 power extension adapts driver to all $\frac{1}{4}$ " drive sockets. Length, $5\frac{1}{2}$ ". Weight, including hex. key and No. 6101 bit, .20 Lb.
 No. 6101—Spare Slot-Type $\frac{5}{32}$ " Screwdriver Bit. Length, 2". Weight, .02 Lb.
 No. 6102—Phillips No. 1 Screwdriver Bit. Length, 2". Weight, .02 Lb.

SPECIAL HAMMERS

No. 1368 Rubber Mallet

Tough, non-flaking Neoprene head prevents damage. Hour-glass design has $2\frac{5}{8}$ " faces. Length, 16". Weight, 1.46 Lbs. No. 1368H—Spare Handle.

No. 1383 Plastic-Tip Hammer

Removable $1\frac{1}{16}$ " round tips. Weight, .76 Lb. No. 1370C—Spare Tip. No. 1370H—Spare Handle.

No. 1430 Brass Hammer

One of the finest designs. Weight, 1.84 Lbs. No. 1430H—Spare Handle.

No. 1448 Two-Way Hammer

Steel head and rubber head. Ideal for mounting tires, drawing rivets and many other jobs. Length, 17" Weight, 2.6 Lbs. No. 1448B—Spare Rubber Head. No. 1416H—Spare Handle.

HAMMER HANDLES

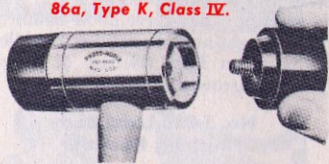


Tough, second growth, straight-grained hickory. Give sure, comfortable grip.

NO.	FOR HAMMERS	EYE SIZE	LENGTH	WT., LBS.
1368H	1368	$1\frac{5}{16}$ " x $\frac{7}{8}$ "	$16\frac{1}{16}$ "	.39
1370H	1383	$1\frac{7}{16}$ " Diam.	$12\frac{1}{4}$ "	.23
1416H	1416 & 1448	$\frac{5}{8}$ " x 1"	$17\frac{3}{8}$ "	.48
1419H	1419	$1\frac{1}{32}$ " x $1\frac{11}{16}$ "	$11\frac{1}{8}$ "	.17
1424H	1424 & 1427	$1\frac{1}{32}$ " x $1\frac{1}{16}$ "	$13\frac{1}{8}$ "	.18
1426H	1421, 1425, 1426 & 1428	$1\frac{3}{32}$ " x $1\frac{13}{16}$ "	13"	.22
1429H	1429	$\frac{3}{8}$ " x $1\frac{11}{16}$ "	$17\frac{3}{8}$ "	.30
1430H	1430	$1\frac{5}{32}$ " x $\frac{7}{8}$ "	$11\frac{3}{4}$ "	.39
PH10	P100 & P105	$1\frac{1}{32}$ " x $1\frac{1}{16}$ "	$11\frac{3}{8}$ "	.15
PH15	P150, P152 & P155	$\frac{1}{2}$ " x $\frac{3}{4}$ "	13"	.23
PH20	P200, P202 & P205	$\frac{5}{8}$ " x $1\frac{15}{16}$ "	13"	.38
PH25	P250	$\frac{3}{4}$ " x $1\frac{1}{16}$ "	15"	.57
PH26	P255	$\frac{3}{4}$ " x $1\frac{1}{16}$ "	13"	.39
PH30	P300 & P305	$\frac{3}{4}$ " x $1\frac{1}{8}$ "	14"	.62

PROTO-NUPLA HAMMER HOLDERS AND NUPLAFLEX PLASTIC TIPS

Federal Specs.: GGG-H-86a, Type K, Class IV.



Perfect for hard and soft metal, rubber, leather, furs and all painted, polished or plated surfaces that would be scratched, marred, or otherwise damaged by a metal hammer.

They offer many advantages over rawhide, rubber, lead, copper, brass, fibre, mica, wood and cellulose plastic—lasting up to 100 times longer than other soft-face hammers.

Holders are available in 2 weights each for 1", 1½", 2", 2½" and 3" tips, and in the shot-loaded impact type for 1½" and 2" tips. For each of the 5 diameters of tips, there are 7 hardness grades—from super soft to extra hard. With the 12 holders and 35 tips, you can assemble 336 different types of hammers.

One holder with a variety of the quickly interchangeable tips can replace many conventional soft-face hammers. By converting hammers in your plant to Nupla, you can simplify stocking problems, reduce your inventory cost, and benefit from less work damage, fewer lost man hours, greater flexibility, easier training and greater safety.

Nuplaflex plastic is far superior to other soft-face materials. It recovers its shape when cut or dented; doesn't dry out or flake off; has unusually long life; is non-sparking and positively safe around explosive fumes; won't burn readily unless held in a flame (Underwriters' Laboratories Listed); will not fracture at low temperatures; is resistant to grease, oil, gasoline and common industrial acids; can be resurfaced by grinding; greatly reduces worker fatigue; absorbs sting-causing vibration, and has minimum rebound—speeding work.

A patented lock prevents a tip from becoming loose in a holder, and yet it is easy to unscrew a tip by hand. A big feature is that two grades of color-coded tips can be used on one holder to form a dual-purpose hammer.

Heads are non-ferrous metal and non-sparking. Handles are of tough, second growth hickory.

Holders—Include Body and Handle, But No Tips



NO.	USE TIP SERIES NO.	HEAD DIAM.	HEAD LGTH.	HANDLE LENGTH	WT., LBS.	SPARE HANDLE NO.
P100	P10	1"	2"	11⅝"	.21	PH10
P105	P10	1"	2"	11⅝"	.40	PH10
P150	P15	1½"	2⅝"	13"	.53	PH15
†P152	P15	1½"	3½"	13"	.78	PH15
P155	P15	1½"	2⅝"	13"	1.03	PH15
P200	P20	2"	2½"	13"	1.08	PH20
†P202	P20	2"	4⅝"	13"	2.08	PH20
P205	P20	2"	2½"	13"	1.83	PH20
P250	P25	2½"	3¼"	15"	1.45	PH25
P255	P25	2½"	3¼"	13"	3.2	PH26
P300	P30	3"	3¾"	14"	2.7	PH30
P305	P30	3"	3¾"	14"	5.0	PH30

†Impax Dead-Blow Type—Shot-Loaded To Prevent Bounce. They Are Ideal for Replacing Lead Hammers.

NOTE: Order Holders and Tips Separately for Assembly into Complete Hammers.

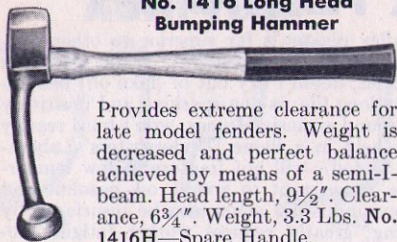
Nuplaflex Plastic Tips—Seven Hardnesses in Each of Five Diameters

TIP DIAM.	TIP LGTH.	WT., LBS.	SUPER SOFT NO.	SOFT NO.	MEDIUM NO.	TOUGH NO.	MEDIUM HARD (NYLON) NO.	HARD NO.	EXTRA HARD NO.
1"	5⅝"	.05	P10SS	P10S	P10M	P10T	P10N	P10H	P10XH
1½"	7⅝"	.11	P15SS	P15S	P15M	P15T	P15N	P15H	P15XH
2"	11⅝"	.21	P20SS	P20S	P20M	P20T	P20N	P20H	P20XH
2½"	13⅝"	.40	P25SS	P25S	P25M	P25T	P25N	P25H	P25XH
3"	15⅝"	.61	P30SS	P30S	P30M	P30T	P30N	P30H	P30XH
COLOR OF TIP			Gray	Brown	Red	Green	Cream	Black	Yellow
REPLACEMENT GUIDE			Soft Rubber	Soft Rubber	Wood Mallet	Rawhide	Rawhide	Rawhide	Rawhide
				Rubber	Wood Rubber	Hardwood	Hardwood	Plastic	Micarta
				Mallet	Rubber	Lead	Lead	Fibre	Fibre
					Rawhide				Copper

After selecting correct size, weight and style of holder in table above, refer to table at left for ordering tips. For maximum life, use the softest tip that will drive work properly.

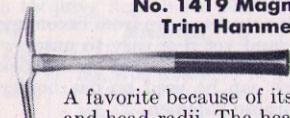
BODY AND FENDER HAMMERS

No. 1416 Long Head Bumping Hammer



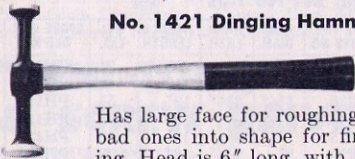
Provides extreme clearance for late model fenders. Weight is decreased and perfect balance achieved by means of a semi-I-beam. Head length, $9\frac{1}{2}$ ". Clearance, $6\frac{3}{4}$ ". Weight, 3.3 Lbs. No. 1416H—Spare Handle.

No. 1419 Magnetic Trim Hammer



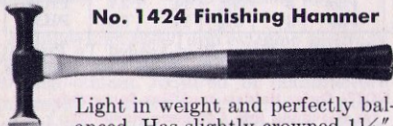
A favorite because of its long reach and head radii. The head is curved in the arc of a natural swing. Length of head, $5\frac{3}{4}$ ". Weight, .57 Lb. No. 1419H—Spare Handle.

No. 1421 Dinging Hammer



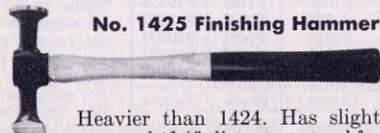
Has large face for roughing the bad ones into shape for finishing. Head is 6" long, with $1\frac{1}{4}$ " and $1\frac{5}{8}$ " round faces. Faces are slightly crowned. Weight, 1.00 Lb. No. 1426H—Spare Handle.

No. 1424 Finishing Hammer



Light in weight and perfectly balanced. Has slightly crowned $1\frac{1}{4}$ "-diameter round face, and a $1\frac{1}{16}$ " square face. Weight, .64 Lb. No. 1424H—Spare Handle.

No. 1425 Finishing Hammer

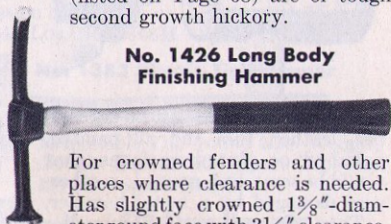


Heavier than 1424. Has slightly crowned $1\frac{1}{2}$ "-diameter round face, and a $1\frac{1}{8}$ " square face. Weight, .90 Lb. No. 1426H—Spare Handle.

Federal Specs.: GGG-H-86a.

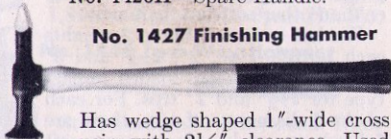
These hammers are forged from special alloy steel and are designed to speed and simplify repairs. They have good balance, and proper weight and clearances. Handles (listed on Page 68) are of tough second growth hickory.

No. 1426 Long Body Finishing Hammer



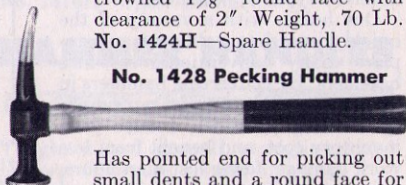
For crowned fenders and other places where clearance is needed. Has slightly crowned $1\frac{3}{8}$ "-diameter round face with $3\frac{1}{2}$ " clearance, and a round cross pein, $1\frac{1}{8}$ " wide, with 4" clearance. Weight, 1.03 Lbs. No. 1426H—Spare Handle.

No. 1427 Finishing Hammer



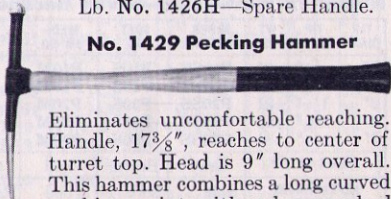
Has wedge shaped 1"-wide cross pein with $2\frac{1}{2}$ " clearance. Used for fender beads, corner along panel beading, etc. Has slightly crowned $1\frac{3}{8}$ " round face with clearance of 2". Weight, .70 Lb. No. 1424H—Spare Handle.

No. 1428 Pecking Hammer



Has pointed end for picking out small dents and a round face for finishing. Head is $5\frac{7}{8}$ " long overall. Slightly crowned round face is $1\frac{1}{2}$ " in diameter. Weight, .86 Lb. No. 1426H—Spare Handle.

No. 1429 Pecking Hammer



Eliminates uncomfortable reaching. Handle, $17\frac{3}{8}$ ", reaches to center of turret top. Head is 9" long overall. This hammer combines a long curved pecking point with a long-necked round pein. Weight, .88 Lb. No. 1429H—Spare Handle.

BODY AND FENDER TOOLS



1452 Type X



1454



1457 Type VIII,
Style B



1453 Type I,
Style D



1455 Type II



1458 Type III

All Dollies Are Forged of Alloy Steel, Hardened and Tempered, and Polished on Working Surfaces. They Maintain Smooth Surfaces Over Long Periods of Time, Even with Hard Daily Use.

No. 1454 Radius Dolly

Useful design, with many radii. One side and bottom are flat for dinging flat surfaces. Both ends high crowned. Size, $1\frac{1}{32}$ " x $2\frac{3}{16}$ " x $4\frac{1}{2}$ ". Weight, 2.9 Lbs.

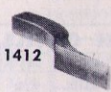
No. 1455 Bead Dolly

Another popular dolly, used for beads or flanges on fenders. Flat side works under long curve of fender. Thin edge is useful for corners and beading. Size, $1\frac{7}{8}$ " x $2\frac{29}{32}$ " x $4\frac{1}{16}$ ". Weight, 2.4 Lbs.

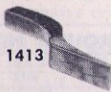
Wood Paddles for Making Solder Fills



1411



1412



1413

Three differently shaped and specially designed paddles. The select kiln-dried hardwood used is highly resistant to charring, and it is treated by a special process to provide the peculiar qualities necessary for the smooth spreading of solder.

NO.	WORKING AREA	LENGTH	WT., LB.
1411	Flat, $1\frac{1}{16}$ " x $3\frac{3}{4}$ "	$7\frac{3}{4}$ "	.11
1412	Curved, $1\frac{1}{16}$ " x $3\frac{3}{4}$ "	$7\frac{3}{4}$ "	.09
1413	Flat, $1\frac{1}{16}$ " x $3\frac{3}{4}$ "	$7\frac{3}{4}$ "	.09

No. 1400SP Solder Paddle Set

Includes the solder paddles listed above—Nos. 1411, 1412 and 1413. Weight, .40 Lbs.

Dolly Blocks

Federal Specs.: GGG-B-00481 (Interim). See Illustrations at Left for Type and Style Specifications of Dolly Blocks That Conform.

No. 1452 Egg-Shaped Dolly

A very useful and popular shape, with a great many different curves and angles. Size, $1\frac{5}{8}$ " x $2\frac{1}{2}$ " x $3\frac{3}{4}$ ". Weight, 3.1 Lbs.

No. 1453 Railroad or General Purpose Dolly

Has a large variety of radii, perfect hand fit, thin beading edge, and $7\frac{1}{2}$ square inches on largest face. Heavy weight is ideal for bumping out dents. Size, $2\frac{3}{8}$ " x $2\frac{3}{4}$ " x $2\frac{3}{32}$ ". Weight, 2.9 Lbs.

No. 1457 Shrinking Dolly

The unique shape and low crown make this dolly ideal for shrinking body metal, and for raising beads and molding. Size, $1\frac{1}{4}$ " x $3\frac{1}{16}$ " x $3\frac{3}{16}$ ". Weight, 2.2 Lbs.

No. 1458 Semi-Elliptical Heel Dolly

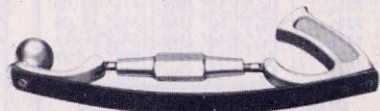
Provides two flat and two crowned working surfaces. Very useful in restricted places. Suitable for shrinking metal. Size, $1\frac{1}{16}$ " x $2\frac{3}{8}$ " x $3\frac{1}{4}$ ". Weight, 2.2 Lbs.

No. 1501 Flexible Flat Straight File



Fast cutting type for all kinds of body, fender and sheet metal work. Has curved teeth on both sides. Length, 14". Width, $1\frac{3}{8}$ ". Weight, .70 Lb.

No. 1509 Adjustable File Holder



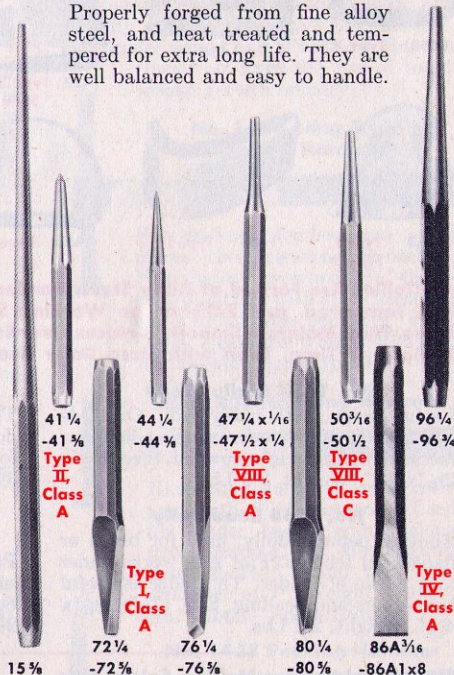
Made of aluminum, this fender file holder is light but strong. Simple adjustment makes file convex, concave or flat. Length, 16". Weight, 1.86 Lbs.

PUNCHES AND CHISELS

Federal Specs.: GGG-P-831a (Punches) and GGG-C-313 (Chisels). See Illustrations for Type and Class Specifications of Punches and Chisels That Conform.

ALIGNING PUNCH					
NO.	POINT	STOCK	LGTH.	WT., LBS.	
155 $\frac{7}{8}$	$\frac{3}{16}$ "	19 $\frac{1}{32}$ " Hex.	16"	.98	
CENTER PUNCHES					
411 $\frac{1}{4}$	----	$\frac{1}{4}$ " Hex.	49 $\frac{3}{32}$ "	.05	
415 $\frac{1}{16}$	----	$\frac{5}{16}$ " Hex.	42 $\frac{3}{32}$ "	.09	
413 $\frac{3}{8}$	----	$\frac{3}{8}$ " Hex.	42 $\frac{3}{32}$ "	.13	
417 $\frac{1}{16}$	----	$\frac{1}{16}$ " Hex.	51 $\frac{1}{4}$ "	.19	
411 $\frac{1}{2}$	----	$\frac{1}{2}$ " Hex.	55 $\frac{5}{8}$ "	.26	
415 $\frac{7}{8}$	----	19 $\frac{1}{32}$ " Hex.	63 $\frac{1}{16}$ "	.44	
PRICK PUNCHES					
441 $\frac{1}{4}$	----	$\frac{1}{4}$ " Hex.	42 $\frac{3}{32}$ "	.05	
445 $\frac{1}{16}$	----	$\frac{5}{16}$ " Hex.	51 $\frac{1}{32}$ "	.09	
443 $\frac{3}{8}$	----	$\frac{3}{8}$ " Hex.	59 $\frac{3}{32}$ "	.13	
RIVET OR PIN PUNCHES					
471 $\frac{1}{4}$ x1 $\frac{1}{16}$	$\frac{1}{16}$ "	$\frac{1}{4}$ " Hex.	49 $\frac{3}{8}$ "	.05	
471 $\frac{1}{4}$ x3 $\frac{3}{32}$	$\frac{3}{32}$ "	$\frac{1}{4}$ " Hex.	49 $\frac{3}{4}$ "	.05	
475 $\frac{1}{16}$ x1 $\frac{1}{8}$	$\frac{1}{8}$ "	$\frac{5}{16}$ " Hex.	51 $\frac{1}{4}$ "	.09	
475 $\frac{1}{16}$ x5 $\frac{3}{32}$	$\frac{5}{32}$ "	$\frac{5}{16}$ " Hex.	59 $\frac{3}{8}$ "	.10	
473 $\frac{3}{8}$ x3 $\frac{1}{16}$	$\frac{3}{16}$ "	$\frac{3}{8}$ " Hex.	61 $\frac{1}{8}$ "	.15	
477 $\frac{1}{16}$ x1 $\frac{3}{32}$	$\frac{1}{32}$ "	$\frac{7}{16}$ " Hex.	61 $\frac{1}{2}$ "	.20	
471 $\frac{1}{2}$ x1 $\frac{1}{4}$	$\frac{1}{4}$ "	$\frac{1}{2}$ " Hex.	69 $\frac{1}{4}$ "	.30	
STARTING PUNCHES					
503 $\frac{1}{16}$	$\frac{1}{16}$ "	$\frac{3}{8}$ " Hex.	49 $\frac{3}{32}$ "	.03	
501 $\frac{1}{4}$	$\frac{3}{32}$ "	$\frac{1}{4}$ " Hex.	42 $\frac{1}{32}$ "	.05	
505 $\frac{1}{16}$	$\frac{1}{8}$ "	$\frac{5}{16}$ " Hex.	55 $\frac{3}{32}$ "	.10	
503 $\frac{3}{8}$	$\frac{3}{16}$ "	$\frac{3}{8}$ " Hex.	59 $\frac{1}{32}$ "	.15	
507 $\frac{1}{16}$	$\frac{1}{32}$ "	$\frac{1}{16}$ " Hex.	6"	.23	
501 $\frac{1}{2}$	$\frac{1}{4}$ "	$\frac{1}{2}$ " Hex.	61 $\frac{1}{2}$ "	.31	
LONG TAPER DRIFT PUNCHES					
961 $\frac{1}{4}$	$\frac{3}{32}$ "	$\frac{1}{4}$ " Hex.	101 $\frac{1}{8}$ "	.11	
965 $\frac{1}{16}$	$\frac{1}{8}$ "	$\frac{5}{16}$ " Hex.	101 $\frac{1}{8}$ "	.18	
963 $\frac{3}{8}$	$\frac{3}{16}$ "	$\frac{3}{8}$ " Hex.	101 $\frac{1}{8}$ "	.27	
967 $\frac{1}{16}$	$\frac{1}{32}$ "	$\frac{1}{16}$ " Hex.	103 $\frac{1}{16}$ "	.35	
961 $\frac{1}{2}$	$\frac{1}{4}$ "	$\frac{1}{2}$ " Hex.	103 $\frac{1}{16}$ "	.46	
965 $\frac{3}{8}$	$\frac{5}{16}$ "	19 $\frac{1}{32}$ " Hex.	103 $\frac{1}{16}$ "	.73	
963 $\frac{1}{4}$	$\frac{3}{8}$ "	23 $\frac{1}{32}$ " Hex.	101 $\frac{1}{4}$ "	1.02	
RIVET CUTTER					
NO.	CUT	STOCK	LGTH.	WT., LBS.	
303 $\frac{3}{4}$ x12	$\frac{7}{8}$ "	23 $\frac{1}{32}$ " Hex.	12 $\frac{1}{4}$ "	1.47	
CAPE CHISELS					
721 $\frac{1}{4}$	11 $\frac{1}{64}$ "	$\frac{1}{8}$ " Hex.	45 $\frac{5}{8}$ "	.05	
725 $\frac{1}{16}$	13 $\frac{1}{64}$ "	$\frac{5}{16}$ " Hex.	51 $\frac{1}{8}$ "	.09	
723 $\frac{3}{8}$	17 $\frac{1}{64}$ "	$\frac{3}{8}$ " Hex.	59 $\frac{3}{32}$ "	.15	
721 $\frac{1}{2}$	21 $\frac{1}{64}$ "	$\frac{1}{2}$ " Hex.	69 $\frac{1}{16}$ "	.27	
725 $\frac{7}{8}$	3 $\frac{1}{8}$ "	19 $\frac{1}{32}$ " Hex.	69 $\frac{1}{16}$ "	.46	
DIAMOND POINT CHISELS					
761 $\frac{1}{4}$	5 $\frac{3}{32}$ "	$\frac{1}{4}$ " Hex.	45 $\frac{5}{8}$ "	.06	
765 $\frac{1}{16}$	3 $\frac{1}{16}$ "	$\frac{5}{16}$ " Hex.	51 $\frac{5}{8}$ "	.10	
763 $\frac{3}{8}$	$\frac{1}{4}$ "	$\frac{3}{8}$ " Hex.	59 $\frac{5}{8}$ "	.15	
761 $\frac{1}{2}$	$\frac{1}{8}$ "	$\frac{1}{2}$ " Hex.	61 $\frac{1}{4}$ "	.28	
765 $\frac{7}{8}$	3 $\frac{1}{8}$ "	19 $\frac{1}{32}$ " Hex.	61 $\frac{1}{2}$ "	.48	

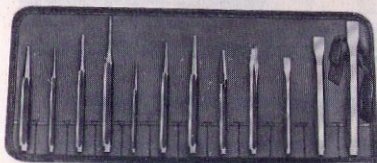
Properly forged from fine alloy steel, and heat treated and tempered for extra long life. They are well balanced and easy to handle.



ROUND NOSE CHISELS					
NO	CUT	STOCK	LGTH.	WT., LBS.	
801 $\frac{1}{4}$	11 $\frac{1}{64}$ "	$\frac{1}{4}$ " Hex.	45 $\frac{5}{8}$ "	.06	
805 $\frac{1}{16}$	13 $\frac{1}{64}$ "	$\frac{5}{16}$ " Hex.	51 $\frac{1}{8}$ "	.10	
803 $\frac{3}{8}$	17 $\frac{1}{64}$ "	$\frac{3}{8}$ " Hex.	59 $\frac{3}{32}$ "	.15	
805 $\frac{7}{8}$	3 $\frac{1}{8}$ "	19 $\frac{1}{32}$ " Hex.	61 $\frac{1}{2}$ "	.49	
COLD CHISELS					
86A3 $\frac{1}{16}$	$\frac{1}{4}$ "	$\frac{3}{16}$ " Hex.	47 $\frac{5}{8}$ "	.03	
86A1 $\frac{1}{4}$	5 $\frac{1}{16}$ "	$\frac{1}{4}$ " Hex.	51 $\frac{1}{8}$ "	.06	
86A5 $\frac{1}{16}$	2 $\frac{3}{8}$ "	$\frac{5}{16}$ " Hex.	58 $\frac{3}{8}$ "	.10	
86A3 $\frac{3}{8}$	$\frac{1}{16}$ "	$\frac{3}{8}$ " Hex.	55 $\frac{5}{8}$ "	.17	
86A7 $\frac{1}{16}$	$\frac{1}{2}$ "	$\frac{7}{16}$ " Hex.	69 $\frac{1}{16}$ "	.24	
86A1 $\frac{1}{2}$	5 $\frac{5}{8}$ "	$\frac{1}{2}$ " Hex.	61 $\frac{1}{16}$ "	.35	
86A5 $\frac{5}{8}$	3 $\frac{3}{4}$ "	19 $\frac{1}{32}$ " Hex.	73 $\frac{1}{16}$ "	.57	
86A3 $\frac{3}{4}$ x8	2 $\frac{3}{8}$ "	23 $\frac{1}{32}$ " Hex.	87 $\frac{1}{16}$ "	.92	
86A3 $\frac{3}{4}$ x12	2 $\frac{3}{8}$ "	23 $\frac{1}{32}$ " Hex.	12 $\frac{1}{4}$ "	1.44	
86A7 $\frac{3}{8}$ x8	1"	13 $\frac{1}{16}$ " Hex.	81 $\frac{1}{4}$ "	1.26	
86A7 $\frac{3}{8}$ x12	1"	13 $\frac{1}{16}$ " Hex.	12 $\frac{1}{4}$ "	1.94	
86A1x8	13 $\frac{1}{16}$ "	15 $\frac{1}{16}$ " Hex.	81 $\frac{1}{4}$ "	1.64	

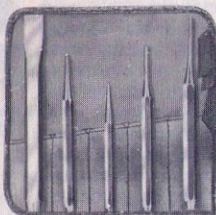


PUNCH AND CHISEL SETS



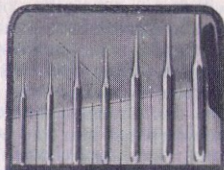
No. 2 Set

A fine selection, providing the twelve punches and chisels used most frequently in practically all types of work. Includes Center Punch 41 $\frac{3}{8}$; Rivet or Pin Punches 47 $\frac{1}{4}$ x $\frac{3}{32}$, 47 $\frac{5}{16}$ x $\frac{1}{8}$ and 47 $\frac{3}{8}$ x $\frac{3}{16}$; Starting Punches 50 $\frac{3}{16}$, 50 $\frac{5}{16}$ and 50 $\frac{3}{8}$; Cape Chisel 72 $\frac{5}{16}$; Diamond Point Chisel 76 $\frac{3}{16}$, and Cold Chisels 86A $\frac{1}{4}$, 86A $\frac{3}{8}$ and 86A $\frac{7}{16}$ in a red Vinyl Kit No. 2402. Weight, 1.55 Lbs.



No. 3 Set

A useful set, including Center Punch 41 $\frac{3}{8}$; Rivet or Pin Punches 47 $\frac{5}{16}$ x $\frac{1}{8}$ and 47 $\frac{3}{8}$ x $\frac{3}{16}$; Starting Punch 50 $\frac{3}{16}$, and Cold Chisel 86A $\frac{1}{2}$ in Vinyl Kit No. 2411. Weight, .95 Lb.



No. 47A Set

A handy master set of rivet or pin punches with all of the sizes available. Includes 47 $\frac{1}{4}$ x $\frac{1}{16}$, 47 $\frac{1}{4}$ x $\frac{3}{32}$, 47 $\frac{5}{16}$ x $\frac{1}{8}$, 47 $\frac{5}{16}$ x $\frac{5}{32}$, 47 $\frac{3}{8}$ x $\frac{3}{16}$, 47 $\frac{1}{16}$ x $\frac{1}{32}$ and 47 $\frac{1}{2}$ x $\frac{1}{4}$ in red Vinyl Kit No. 2403. Weight, 1.10 Lbs.

SCREW AND PIPE EXTRACTORS

How to Use



First Drill Hole.



Then Drive in Extractor and Turn Out Broken Object.



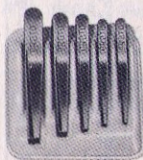
These extractors are the fastest type obtainable for removing broken screws, studs, bolts, pipe, fittings, etc. They are vastly superior to other designs for several reasons: (1) Only three, quick steps are required. (2) Even if hole is drilled clear through, extractor will not chew up object as do other types. (3) Sharp edges bite positively. (4) Gradual taper of flutes prevents wedging and binding. (5) Objects with right or left threads may be removed. (6) Special alloy steel provides long life. You will save precious time and your good disposition on many occasions by getting all ten sizes.

NO.	SIZE OF SMALL END	SIZE OF SHANK	OVER-ALL LENGTH	U.S.S. SCREW, STUD OR BOLT SIZE	DRILL SIZE	MIN. DEPTH OF HOLE	PIPE SIZE	WT., LBS.
9521	1 $\frac{1}{8}$ "	3 $\frac{1}{16}$ "	25 $\frac{5}{8}$ "	1 $\frac{1}{4}$, 5 $\frac{1}{16}$	1 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	-----	.01
9522	11 $\frac{3}{4}$ "	3 $\frac{1}{16}$ "	25 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "	-----	.02
†9523	13 $\frac{3}{4}$ "	1 $\frac{1}{4}$ "	27 $\frac{5}{8}$ "	7 $\frac{1}{8}$ "	15 $\frac{1}{16}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	.04
9524	19 $\frac{3}{4}$ "	3 $\frac{1}{16}$ "	3"	1 $\frac{1}{2}$, 9 $\frac{1}{16}$	2 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{4}$ "	.06
9525	11 $\frac{3}{4}$ "	3 $\frac{1}{16}$ "	31 $\frac{1}{4}$ "	5 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	.10
9525B	2 $\frac{1}{2}$ "	1 $\frac{1}{16}$ "	37 $\frac{3}{8}$ "	3 $\frac{3}{8}$ "	15 $\frac{1}{32}$ "	1 $\frac{1}{16}$ "	-----	.17
9526	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	7 $\frac{1}{8}$ "	9 $\frac{1}{16}$ "	1 $\frac{1}{16}$ "	1 $\frac{1}{2}$ "	.23
9527	19 $\frac{3}{4}$ "	5 $\frac{1}{8}$ "	47 $\frac{1}{8}$ "	1, 1 $\frac{1}{8}$	21 $\frac{1}{32}$ "	3 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	.40
9528	23 $\frac{1}{2}$ "	3 $\frac{1}{4}$ "	53 $\frac{3}{8}$ "	1 $\frac{1}{4}$, 1 $\frac{1}{8}$	13 $\frac{1}{16}$ "	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	.65
9529	31 $\frac{1}{2}$ "	1"	51 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	17 $\frac{1}{16}$ "	3 $\frac{1}{4}$ "	1"	1.12

†For Broken Alemite Fittings.

No. 9500A Screw Extractor Set

Includes the five most popular sizes of extractors—Nos. 9521, 9522, 9523, 9524 and 9525—and a handy, custom molded plastic rack for making all of the extractors quickly accessible. Weight, .26 Lb.



9500A

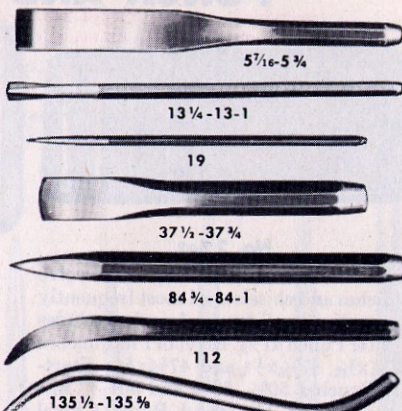
PLUMBING TOOLS

In addition to these specialized tools, you will find a great many others in this catalog that are needed for plumbing, heating, ventilating and air conditioning work. Among them are pipe wrenches; flare nut and adjustable wrenches; box, open end and combination wrenches; punches; chisels; pliers; screwdrivers; gear and bearing pullers; hammers; bars; tool chests, boxes and kits; and socket sets in $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and larger drives.

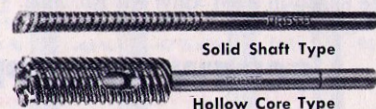
FLOOR OR WOOD CHISELS					
NO.	STOCK SIZE	WIDTH OF CUT	BLADE LENGTH	OVERALL LENGTH	WT., LBS.
57 $\frac{1}{16}$	$\frac{3}{16}$ "	$\frac{5}{8}$ "	4 $\frac{1}{2}$ "	10"	.36
51 $\frac{1}{2}$	$\frac{1}{2}$ "	$\frac{3}{4}$ "	4 $\frac{1}{4}$ "	10"	.50
59 $\frac{5}{8}$	1 $\frac{1}{2}$ "	1"	3 $\frac{3}{4}$ "	10"	.70
53 $\frac{3}{4}$	2 $\frac{3}{32}$ "	1 $\frac{1}{16}$ "	3 $\frac{1}{2}$ "	10"	1.00
STAR DRILLS					
131 $\frac{1}{4}$	$\frac{1}{4}$ "	$\frac{1}{4}$ "	----	12"	.16
135 $\frac{1}{16}$	$\frac{1}{16}$ "	$\frac{3}{16}$ "	----	12"	.16
133 $\frac{1}{8}$	$\frac{3}{16}$ "	$\frac{3}{8}$ "	----	12"	.26
131 $\frac{1}{2}$	$\frac{3}{8}$ "	$\frac{1}{2}$ "	----	12"	.38
135 $\frac{5}{8}$	$\frac{7}{16}$ "	$\frac{5}{8}$ "	----	12"	.52
133 $\frac{3}{4}$	$\frac{1}{2}$ "	$\frac{3}{4}$ "	----	12"	.70
137 $\frac{1}{8}$	1 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	----	12"	1.07
13-1	2 $\frac{3}{32}$ "	1"	----	12"	1.52
SCRATCH AWL					
19	$\frac{3}{16}$ "	----	----	6 $\frac{3}{4}$ "	.05
SOIL PIPE CHISELS					
371 $\frac{1}{2}$	$\frac{1}{2}$ "	$\frac{5}{8}$ "	21 $\frac{1}{8}$ "	65 $\frac{5}{8}$ "	.35
375 $\frac{5}{8}$	1 $\frac{1}{2}$ "	$\frac{3}{4}$ "	23 $\frac{3}{8}$ "	71 $\frac{1}{8}$ "	.57
373 $\frac{3}{4}$	2 $\frac{3}{32}$ "	$\frac{7}{8}$ "	27 $\frac{1}{8}$ "	75 $\frac{5}{8}$ "	.84
CONCRETE GADS					
843 $\frac{3}{4}$	2 $\frac{3}{32}$ "	----	21 $\frac{1}{8}$ "	12"	1.40
847 $\frac{1}{8}$	1 $\frac{1}{16}$ "	----	21 $\frac{1}{8}$ "	12"	1.80
84-1	1 $\frac{1}{16}$ "	----	23 $\frac{1}{4}$ "	12"	2.3
LEAD-PICKING TOOL					
112	$\frac{1}{2}$ "	$\frac{3}{16}$ "	23 $\frac{3}{8}$ "	9"	.46
BENDING IRONS					
1351 $\frac{1}{2}$	$\frac{1}{2}$ "	----	----	10 $\frac{1}{2}$ "	.53
1355 $\frac{5}{8}$	1 $\frac{1}{2}$ "	----	----	10 $\frac{5}{8}$ "	.82

No. 136 Tubing Expander

A very handy tool for plumbers and all others who work with tubing. Three separate steps expand the internal diameters of tubing to $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ ". Length, $3\frac{1}{8}$ ". Weight, .86 Lb.



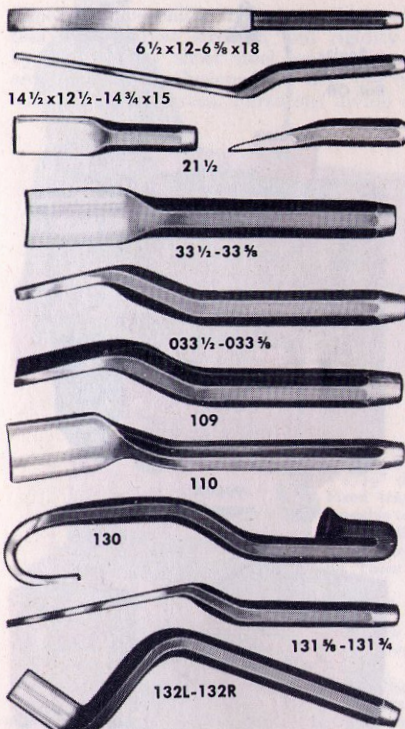
Carbide Power Type Masonry Drills



For fast, accurate drilling of concrete, tile, bricks, slate, marble, rock, stone, plastics, glass, steel, plaster, asphalt, micarta, etc. Have sharp tungsten carbide cutters and three or more spirals. Turned by electric or air drills. Solid type leaves no dead center. Hollow core type removes drilled materials quickly. No. 11A—Merchandise for dealers with 2 each of 6 solid shaft drills listed below and 1 each of 3 hollow core drills—Nos. 12 $\frac{5}{8}$, 12 $\frac{3}{4}$ and 12 $\frac{7}{8}$. Wt., 5.2 Lbs.

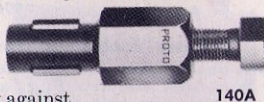
SOLID SHAFT TYPE				
NO.	HOLE SIZE	SHANK DIAMETER	OVERALL LENGTH	WT., LBS.
113 $\frac{1}{16}$	$\frac{3}{16}$ "	$\frac{3}{16}$ "	4"	.03
111 $\frac{1}{4}$	$\frac{1}{4}$ "	$\frac{1}{4}$ "	5"	.06
115 $\frac{1}{16}$	$\frac{5}{16}$ "	$\frac{5}{16}$ "	5"	.06
113 $\frac{3}{8}$	$\frac{3}{8}$ "	$\frac{3}{8}$ "	5"	.09
117 $\frac{1}{16}$	$\frac{1}{16}$ "	$\frac{1}{4}$ "	5"	.11
111 $\frac{1}{2}$	$\frac{1}{2}$ "	$\frac{3}{8}$ "	6"	.18
HOLLOW CORE TYPE				
125 $\frac{5}{8}$	$\frac{5}{8}$ "	$\frac{3}{8}$ "	8"	.24
123 $\frac{3}{4}$	$\frac{3}{4}$ "	$\frac{3}{8}$ "	8 $\frac{1}{2}$ "	.32
127 $\frac{1}{8}$	$\frac{7}{8}$ "	$\frac{1}{2}$ "	9"	.54
12-1	1"	$\frac{1}{2}$ "	9"	.60
12-1 $\frac{1}{8}$	1 $\frac{1}{8}$ "	$\frac{1}{2}$ "	10"	.78

PLUMBING TOOLS



Internal Pipe Wrenches

Screw mandrel to force gripping dogs equally against interior of broken pipe, close nipples, etc. Then turn with wrench. No hammering to release. No. 140A—Set of all 3 wrenches in plastic kit. Weight, 1.44 Lbs.



NO.	PIPE SIZE	OVERALL LENGTH	WT., LBS.	SPARE SET OF 3 JAWS NO.	SPARE SCREW NO.
140	1 1/2"	3 1/2"	.30	140J	140S
141	3/4"	3 3/4"	.51	141J	141S
142	1"	4"	.57	142J	142S

All are forged from fine alloy steel. Yarning irons are slightly offset for clearance. Long calkers, for calking lead in hub of soil pipe, are ground both inside and out, and their concave blades fit 4" pipe. Water main calkers are ground square, have an offset handle for knuckle clearance, and do a fast job of calking joints. Left and right calkers are for use near walls and in corners.

SPRING YARNING IRONS

NO.	STOCK SIZE	BLADE THICKNESS	BLADE WIDTH	BLADE LENGTH	OVERALL LENGTH	WT., LBS.
6 1/2 x 12	1 1/2"	1/16" - 3/8"	5/8"	6 1/2"	12 1/8"	.45
6 5/8 x 12 1/2	1 5/8"	3/32" - 5/32"	3/4"	7"	12 5/8"	.64
6 5/8 x 18	1 3/4"	3/32" - 5/16"	3/4"	13"	18"	.80

OFFSET YARNING IRONS

14 1/2 x 12 1/2	1 1/2"	1/16" - 3/16"	5/8"	6 3/4"	12 3/4"	.52
14 5/8 x 13	1 5/8"	3/32" - 1/4"	1 1/16"	7 1/4"	13 1/4"	.79
14 5/8 x 19	1 3/4"	3/32" - 1/4"	1 1/16"	12 3/4"	19 1/4"	.99
14 3/4 x 15	2 3/32"	3/32" - 5/16"	3/4"	9 1/2"	15 1/4"	1.18

CURVED PONY CALKERS (Inside & Outside)

21 1/2 In	1 1/2"	1/8"	3/4"	1 1/4"	3"	.13
21 1/2 Out	1 1/2"	1/8"	3/4"	1 1/4"	3"	.13

LONG CALKERS (Inside & Outside)

33 1/2 In	1 1/2"	1/8"	3/4"	1 1/2"	6 5/8"	.32
33 1/2 Out	1 1/2"	1/8"	3/4"	1 1/2"	6 5/8"	.32
33 5/8 In	1 5/8"	5/32"	7/8"	1 3/4"	7 1/8"	.52
33 5/8 Out	1 5/8"	5/32"	7/8"	1 3/4"	7 1/8"	.52

OFFSET CALKERS (Inside & Outside)

033 1/2 In	1 1/2"	1/8"	3/4"	1 1/2"	6 5/8"	.33
033 1/2 Out	1 1/2"	1/8"	3/4"	1 1/2"	6 5/8"	.33
033 5/8 In	1 5/8"	1/8"	7/8"	1 5/8"	7 1/8"	.57
033 5/8 Out	1 5/8"	1/8"	7/8"	1 5/8"	7 1/8"	.57
034 5/8 In	1 3/4"	1/8"	3/4"	1 1/4"	7"	.50
034 5/8 Out	1 3/4"	1/8"	3/4"	1 1/4"	7"	.50

WATER MAIN CALKERS

107 3/8	1 3/8"	3/8"	1 1/16"	1 1/16"	8"	1.01
107 1/2	1 1/2"	1/2"	1 1/16"	1 1/16"	8"	1.04
109	2 3/32"	5/16"	1"	2 1/16"	8"	.83

BROAD CURVED NOSE CALKING IRON

110	19/32"	1/8"	1 1/2"	2"	8 1/2"	.71
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CEILING CALKER

130	19/32"	5/32"	1 1/16"	1 5/8"	10"	1.20
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LONG GASKET CALKERS

131 5/8	19/32"	5/32"	7/8"	4"	9 1/2"	.67
131 3/4	23/32"	3/16"	1"	4 1/4"	9 1/2"	.98

LEFT AND RIGHT CALKERS

132L	19/32"	5/32"	7/8"	1 5/8"	8 7/8"	.87
132R	19/32"	5/32"	7/8"	1 5/8"	8 7/8"	.87

"TOOLMOBILE"® MOBILE TOOL CABINETS

Featuring Interchangeable Drawers

You'll be mighty proud when you own a gleaming, sturdy "Toolmobile"—true mark of a professional tool user. Saving hours by taking needed tools to the job, and preventing tool losses, a "Toolmobile" soon pays for itself.

Biggest feature is the interchangeability of drawers, which makes every "Toolmobile" a custom-built cabinet for its owner. Easy-to-move drawer runners, that fit into notches spaced every 2" from top to bottom, permit any of three basic sizes of drawers to be arranged in many combinations.

®Registered U. S. Pat. Off.



9968A
Assembly



9968
Assembly



9968B Assembly

Complete "Toolmobile" Assemblies

9968 Basic Cabinet with Masonite Cover, Drop Front, Lock, Two Keys, Four Casters and Two Handles, Plus 9968-1 Shallow Drawer and Runners, 9968-2 Medium Drawer and Runners, and 9968-4 Drawer Divider Set. Overall Dimensions—31 $\frac{1}{8}$ "x18"x37 $\frac{1}{8}$ " High. Wt., 112 Lbs.

9968A All Parts in 9968, Plus 9968-3 Deep Drawer and Runners, 9968-5 Light Assembly, and 9968-6 Door for Bottom Half. Overall Dimensions—31 $\frac{1}{8}$ "x18"x52 $\frac{1}{2}$ " High. Wt., 133 Lbs.

9968B All Parts in 9968, Plus Extra 9968-1 Shallow Drawer and Runners, Extra 9968-2 Medium Drawer and Runners, Two 9968-3 Deep Drawers and Runners, Extra 9968-4 Drawer Divider Set, and 9968-5 Light Assembly. Overall Dimensions—31 $\frac{1}{8}$ "x18"x52 $\frac{1}{2}$ " High. Wt., 159 Lbs.

MORE BIG "TOOLMOBILE" FEATURES

1. Ruggedly constructed of heavy-gauge welded steel.
2. Critical points strongly reinforced. Round corners, extra heavy channels across bottom, double side walls, hemmed drawer edges and midfront stiffener assure rigidity and proper drawer alignment.
3. Shallow drawer, 21 $\frac{1}{8}$ "x16"x1 $\frac{1}{2}$ " deep (inside), has perforated sections which can be punched out to form holes for drawer divider bolts.
4. Medium drawer, 21 $\frac{1}{8}$ "x16"x3 $\frac{1}{2}$ " deep (inside), has "punch-out" bolt holes and reinforced bottom.
5. Deep drawer, 21 $\frac{1}{8}$ "x16"x5 $\frac{1}{2}$ " deep (inside), has "punch-out" bolt holes and reinforced bottom.
6. Above drawers have outside depths of 2", 4" and 6" to permit various arrangements in the 2"-spaced drawer runner notches. Bottom compartment is 12" deep, which allows also for interchanging drawers.
7. Drawer divider set has two slotted sides and four partitions which form various-sized compartments.
8. Four-roller drawers move at finger's touch. Double-supported roller axles take heavy load.
9. Semi-soft, tough rubber, 5" casters on husky ball-bearing swivel plates—each held by four bolts—roll easily and quietly, and reduce tool jarring.
10. Two casters have handy foot-operated brakes.
11. Single-lock front closes entire cabinet. Folds and slides out of way under top when unlocked.
12. Masonite cover on 18"x28" top provides excellent working surface and protects cabinet and tools. It is 36 $\frac{1}{4}$ " above the floor.
13. Rail around three sides of top keeps tools from rolling off and holds socket wrench racks.
14. Two 15" handles make cabinet easy to maneuver.
15. Useful light assembly has flexible gooseneck that reaches over front for lighting drawers, a chrome plated reflector, two outlets and an 8' cord.
16. Finish is lustrous red, with smart chrome trim.

Individual "Toolmobile" Parts

- 9968-1** Shallow Drawer and Runners. Wt., 8.0 Lbs.
9968-2 Medium Drawer and Runners. Wt., 9.8 Lbs.
9968-3 Deep Drawer and Runners. Wt., 12 Lbs.
9968-4 Drawer Divider Set. Wt., .90 Lb.
9968-5 Complete Light Assembly. Wt., 4.4 Lbs.
9968-6 Door for Bottom Half. Wt., 4.7 Lbs.

ALL-PURPOSE TOOL CHESTS

Superior, top-quality tool chests for professional tool users. Great strength and rigidity secured by heavy-gauge sheet steel, welded construction and reinforcing. Designed for best use of space, with no wasted areas. Partitions divide drawers,

trays and large sections into convenient compartments for storage of socket wrenches, small tools, etc. Strong, telescope-type slides make drawers in two large chests easy to move. Side handles provide a comfortable grip. Rounded corners give an attractive, streamlined appearance. All have durable red finish. Following are features of the four chests shown:



9989



9980

No. 9980 Utility Tool Chest

Overall dimensions— $22\frac{1}{4}'' \times 9'' \times 6\frac{1}{8}''$ high. Two-compartment tray in top space, $21\frac{1}{8}'' \times 3\frac{3}{8}'' \times 1\frac{1}{16}''$ deep. Large bottom compartment with partition, $21\frac{1}{8}'' \times 8\frac{1}{16}'' \times 6\frac{1}{2}''$ deep at front. Hasp on lid fits over staple on drop front for locking. Wt., 10 Lbs.



9990

No. 9989 Master Tool Chest

Overall dimensions— $20\frac{1}{16}'' \times 11\frac{1}{16}'' \times 9''$ high. Hinged tray, $19\frac{1}{16}'' \times 5'' \times 1\frac{1}{2}''$ deep, has two compartments and swings up with lid. Fixed tray at back of top space, $20\frac{1}{2}'' \times 4\frac{1}{2}'' \times 3\frac{1}{16}''$ deep. Removable tote tray, $19\frac{1}{16}'' \times 5\frac{1}{16}'' \times 1\frac{1}{2}''$ deep, has two compartments and handle. Large space at bottom, $20\frac{1}{2}'' \times 11\frac{1}{16}'' \times 4\frac{7}{8}''$ deep, is divided by partition. Front plate for locking chest is hinged to lid. Three hinges are full-length piano-type. Wt., 19 Lbs.

No. 9990 Master Tool Chest

Noted for versatility, having provisions for midget and very large tools. Overall dimensions— $24\frac{1}{2}'' \times 11\frac{1}{2}'' \times 13''$ high. Two small drawers, each $4\frac{1}{16}'' \times 10\frac{1}{16}'' \times 1''$ deep. Another small drawer, $3\frac{1}{16}'' \times 10\frac{1}{16}'' \times 2\frac{1}{8}''$ deep. Medium drawer, $11\frac{1}{16}'' \times 10\frac{1}{16}'' \times 2\frac{1}{8}''$ deep. Large drawer, $20\frac{3}{8}'' \times 10\frac{1}{16}'' \times 2\frac{1}{4}''$ deep, has two compartments. Hinged tray, $23\frac{3}{8}'' \times 5\frac{1}{16}'' \times 1\frac{1}{2}''$ deep, has three compartments and swings up with lid. Fixed tray at back of top space, $24\frac{1}{16}'' \times 3\frac{1}{2}'' \times 2\frac{1}{2}''$ deep. Large inside space, $24\frac{1}{16}'' \times 11\frac{1}{16}'' \times 5\frac{1}{16}''$ deep, has partitioned section for large heavy-duty sockets. Drop front and a plate hinged to the lid overlap at center over staple for locking chest. Four hinges are full-length piano-type. Wt., 37 Lbs.



9997

No. 9997 Master Tool Chest

Has many features that make it strong, safe, convenient and good-looking. Overall dimensions— $27'' \times 12'' \times 15''$ high. Four medium drawers, each $11\frac{1}{8}'' \times 10\frac{5}{8}'' \times 1\frac{1}{4}''$ deep and partitioned into three compartments. Two large drawers, each $23\frac{1}{4}'' \times 10\frac{3}{4}'' \times 2\frac{3}{4}''$ deep and divided into two sections by sturdy welded partition. Removable tote tray, $21\frac{1}{16}'' \times 8\frac{1}{16}''$, has rigid non-tilt handle and three compartments, two of them suitable for sockets. Top section of chest has three large compartments, one for holding the tote tray. Double-rib reinforced top overlaps balance of chest to make tight seal. Front plate for covering drawers is hinged to lid and swings inside lid when chest is opened. Strong tumbler lock secures chest in three places. Wt., 65 Lbs.

STEEL TOOL BOXES FOR SOCKET SETS

No. 4795 Midget Tool Box

For $\frac{1}{4}$ " drive midget sockets, handles and attachments. Keeps smaller tools in orderly array and separated from others. Has compartment for sockets. Dimensions, $6\frac{3}{4}$ "x $2\frac{1}{4}$ "x1". Weight, .52 Lb.

No. 5294 Junior Cub Tool Box

Smaller than No. 5295. Holds large number of $\frac{3}{8}$ " drive cub sockets and a few attachments. Dimensions, $10\frac{1}{4}$ "x $2\frac{1}{4}$ "x $1\frac{1}{4}$ ". Weight, .83 Lb.

No. 5295 Cub Tool Box

For $\frac{3}{8}$ " drive cub sockets, handles and attachments. Strength is increased by die-formed one-piece construction, end reinforcing flanges and rounded corners. Has socket compartment and a spring hasp. Dimensions, $17\frac{7}{8}$ "x $5\frac{1}{4}$ "x $1\frac{3}{8}$ ". Weight, 1.70 Lbs.

No. 5494 Junior Standard Tool Box

A smaller box than No. 5495, but has room for a large number of $\frac{1}{2}$ " drive standard sockets and a few handles and attachments. Dimensions, 17 "x 3 "x 2 ". Weight, 1.86 Lbs.

No. 5495 Standard Tool Box

For $\frac{1}{2}$ " drive standard sockets, handles and attachments. Die-formed one-piece construction, reinforced edges and rounded corners all add strength. Has two socket compartments, speeder holder in lid, spring hasp, and husky handle on side. Dimensions, $19\frac{3}{16}$ "x $7\frac{1}{4}$ "x 2 ". Weight, 4.6 Lbs.

No. 5695 Heavy-Duty Tool Box

For $\frac{3}{4}$ " drive heavy-duty sockets, handles and attachments. Construction throughout is extra heavy. Has five convenient compartments. Cover is held shut by two spring catches and a padlock hasp. Handle folds out of way when not in use. Dimensions, $22\frac{1}{2}$ "x 8 "x $3\frac{3}{4}$ ". Weight, 9.0 Lbs.

No. 5696 Heavy-Duty Tool Box

Larger than No. 5695. For biggest $\frac{3}{4}$ " drive socket set. Dimensions, $23\frac{1}{2}$ "x $9\frac{1}{4}$ "x 4 ". Weight, 16 Lbs.

No. 5894 Extra Heavy-Duty Tool Box

For 1" square drive extra heavy-duty and $\frac{3}{4}$ " drive heavy-duty sockets, handles and attachments. Made extra heavy throughout — welded, riveted and strongly reinforced. Dimensions, 30 "x $8\frac{1}{4}$ "x 5 ". Weight, 14 Lbs.

No. 5895 Extra Heavy-Duty Tool Box

Larger than 5894. Holds biggest 1" drive socket set. Dimensions, 31 "x 13 "x $5\frac{3}{4}$ ". Weight, 37 Lbs.

All boxes for socket sets are made of sturdy heavy-gauge steel and have red baked enamel finish.



4795



5294



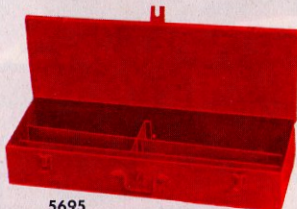
5295



5494



5495



5695



5894

STEEL TOOL BOXES

No. 100HR Hip-Roof Tool Box

For taking tools to job. Tote tray, which fits inside top, has socket compartment $13\frac{1}{2}$ " long and full-length compartment 2" wide. Box is made of heavy-gauge steel, and is $22 \times 7\frac{3}{8} \times 8\frac{1}{2}$ ". Handles hold box shut while carrying. Finish is red. Weight, 10 Lbs.



100HR

Nos. 9970 and 9971 Hip-Roof Tool Boxes

Room for amazing number of tools. Made of heavy-gauge steel, with strong full-length hinges. Handy tote tray lifts out. Finish is red. Two sizes available.



9971

NO.	DIMENSIONS	WT., LBS.
9970	20"x6"x5 $\frac{1}{4}$ "	6.7
9971	19"x7"x8 $\frac{3}{4}$ "	9.3

No. 9972 Tool Box

Handy for many types of tool users. Removable tote tray has three compartments. Made of heavy-gauge steel, with full-length hinge. Dimensions, $23 \times 8 \times 9$ ". Finish is red. Weight, 12 Lbs.



9972

KITS FOR TOOL SETS

Finest obtainable for storing and carrying tools. Vinyl plastic impregnation offers many advantages. It is noted for long wear, is flexible, won't crack or peel, is scratch and scuff proof, resists grease and oil, and is easy to clean with soap and water. The kits are red, with blue trim. They have strongly stitched seams, heavy tie strings, two grommets for hanging, and tough, crystal clear vinyl plastic pocket covers.



2402-2450

NO.	FOR SET NO.	WIDTH	DEPTH	POCKET-ETS	WT., LBS.
2402	2	12 $\frac{1}{8}$ "	7 $\frac{1}{8}$ "	12	.09
2403	47A	7 $\frac{3}{8}$ "	8 $\frac{1}{4}$ "	7	.07
2404	1200H	11 $\frac{3}{8}$ "	10 $\frac{1}{2}$ "	7	.14
2405	1100K	10 $\frac{1}{8}$ "	15"	5	.17
2406	3000H	21 $\frac{1}{4}$ "	15 $\frac{1}{2}$ "	10	.35
2407	3000R	10 $\frac{1}{4}$ "	8 $\frac{3}{4}$ "	6	.10
2408	9900D	8 $\frac{1}{2}$ "	9 $\frac{1}{4}$ "	4	.10
2409	3000N	9 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "	5	.12
2410	3300A	9 $\frac{3}{8}$ "	5 $\frac{3}{4}$ "	9	.06
2411	3	5 $\frac{1}{8}$ "	8 $\frac{1}{8}$ "	5	.04
2412	3400G	6 $\frac{3}{4}$ "	11 $\frac{1}{8}$ "	4	.09
2413	1200F	25"	18 $\frac{1}{2}$ "	15	.58
2414	3000A	19"	13 $\frac{1}{2}$ "	10	.28
2415	1200L	12 $\frac{3}{4}$ "	13 $\frac{1}{2}$ "	9	.18
2416	3200D	9 $\frac{1}{8}$ "	5 $\frac{3}{4}$ "	9	.06
2417	3200B	5 $\frac{1}{8}$ "	5 $\frac{3}{4}$ "	5	.04
2418	1100M	18 $\frac{1}{8}$ "	18 $\frac{1}{2}$ "	10	.50
†2450	9900C	7"	9"	3	.16

†Belt-Type Kit, for Carrying Tools on the Job. Made of Red Chrome-Tanned, Top Quality Leather.

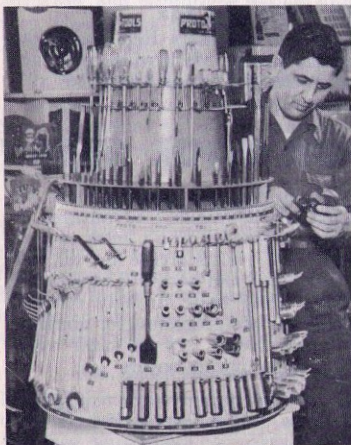
WHERE TO BUY PROTO TOOLS

Leading distributors, jobbers, hardware stores, farm implement dealers and other retailers sell PROTO tools. They are in every section of the United States, in all parts of Canada, and elsewhere throughout the entire World.

To make it easy for you to select the tools you need, PROTO stores use modern self-service merchandisers which were developed for your convenience. Some of these merchandisers are wall-type display panels. Others are compact units for counter and floor displays. All of them

hold a big selection of tools, and show tool numbers and opening sizes. PROTO merchandisers, like the representative types illustrated, are your "Tool Headquarters."

You will find it advantageous to do business with sellers of PROTO tools. They are reliable businessmen who know your problems, have a thorough knowledge of the products they sell, and render many valuable services to help you. They carry large stocks of high-quality merchandise besides tools, thus providing a one-stop, time-saving source for your needs.

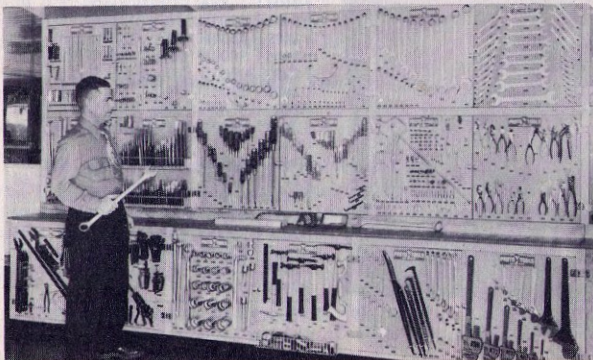


Left—The No. SD4 Rotomat Toolmart is an ultra-modern, rotating counter merchandiser, brightly colored in yellow, red, white and blue. It shows prices, opening sizes and numbers of the many tools displayed.

 **U.S. Pat.
Off. Design
No. 168,095**



The No. SD2 Super Service Toolmart, a mobile, four-sided merchandiser that displays over 400 types and sizes of PROTO tools.



Left—An impressive "Tool Headquarters," composed of eighteen PROTO wall-type merchandisers. It's easy to choose the tools you need from a neatly arranged display of this type.

Chart of Standard Bolt, Nut and Screw Sizes, Corresponding to Nominal Sizes Marked on PROTO Wrenches and Sockets

To use this chart, locate thread diameter of bolt, nut or screw in extreme left or right column. Then move across to box which has proper identification of bolt, nut or screw at top of vertical column. The size in this particular box is the nominal opening size in inches of the PROTO wrenches and sockets that will fit.

THREAD
DIAMETER
OF BOLT,
NUT OR
SCREW

**NOMINAL OPENING SIZE OF WRENCH OR SOCKET
IN INCHES TO FIT STANDARD
BOLT HEADS, NUTS AND SCREW HEADS**

AMERICAN STANDARDS ASSOCIATION—ASA B18.2, APPENDIX I

NUTS

BOLTS AND SCREWS

FINISHED HEX., HEX. JAM., HEX. SLOTTED, HEX. THICK, HEX. THICK SLOTTED & HEX. CASTLE	REGULAR SQ., HEX. & HEX. JAM	HEAVY SQ., HEX. & HEX. JAM	MACHINE SCREW & STOVE BOLT NUTS	FINISHED & REG. SQ. & HEX. BOLTS SEMI- FINISHED HEX. BOLTS HEX. CAP SCREWS	HEAVY BOLTS— HEX., SEMI- FINISHED HEX. & FINISHED HEX.	LAG BOLTS— SQUARE	SET SCREWS— SQUARE
---	------------------------------------	----------------------------------	--	---	--	-------------------------	--------------------------

THREAD
DIAMETER
OF BOLT,
NUT OR
SCREW

#0 & 1				$\frac{5}{32}$				#0 & 1
#2 & 3				$\frac{3}{16}$				#2 & 3
#4				$\frac{1}{4}$				#4
#5 & 6				$\frac{5}{16}$				#5 & 6
#8				$\frac{11}{32}$				#8
#10				$\frac{3}{8}$		$\frac{9}{32}$	$\frac{3}{16}$	#10
#12				$\frac{7}{16}$			$\frac{7}{32}$	#12
$\frac{1}{4}$ "	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{13}{16}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$ "
$\frac{5}{16}$ "	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{5}{16}$ "
$\frac{3}{8}$ "	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$ "
$\frac{7}{16}$ "	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{9}{8}$	$\frac{9}{8}$	$\frac{5}{8}$	$\frac{7}{16}$	$\frac{7}{16}$ "
$\frac{1}{2}$ "	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$ "
$\frac{9}{16}$ "	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{13}{16}$			$\frac{9}{16}$	$\frac{9}{16}$ "
$\frac{5}{8}$ "	$\frac{15}{16}$	1	$\frac{11}{16}$	$\frac{15}{16}$	$\frac{11}{16}$	$\frac{15}{16}$	$\frac{5}{8}$	$\frac{5}{8}$ "
$\frac{3}{4}$ "	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$ "
$\frac{7}{8}$ "	$1\frac{5}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{5}{16}$	$\frac{7}{8}$	$\frac{7}{8}$ "
1"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{1}{2}$	1	1"
$1\frac{1}{8}$ "	$1\frac{11}{16}$	$1\frac{11}{16}$	$1\frac{13}{16}$	$1\frac{11}{16}$	$1\frac{13}{16}$	$1\frac{11}{16}$	$1\frac{1}{8}$	$1\frac{1}{8}$ "
$1\frac{1}{4}$ "	$1\frac{7}{8}$	$1\frac{7}{8}$	2	$1\frac{7}{8}$	2	$1\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{4}$ "
$1\frac{3}{8}$ "	$2\frac{1}{16}$	$2\frac{1}{16}$	$2\frac{3}{16}$	$2\frac{1}{16}$	$2\frac{3}{16}$		$1\frac{3}{8}$	$1\frac{3}{8}$ "
$1\frac{1}{2}$ "	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$		$1\frac{1}{2}$	$1\frac{1}{2}$ "
$1\frac{5}{8}$ "	$2\frac{7}{16}$	$2\frac{7}{16}$	$2\frac{9}{16}$	$2\frac{7}{16}$	$2\frac{9}{16}$			$1\frac{5}{8}$ "
$1\frac{3}{4}$ "	$2\frac{5}{8}$	$2\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{5}{8}$	$2\frac{3}{4}$			$1\frac{3}{4}$ "
$1\frac{7}{8}$ "	$2\frac{13}{16}$	$2\frac{13}{16}$	$2\frac{15}{16}$	$2\frac{13}{16}$	$2\frac{15}{16}$			$1\frac{7}{8}$ "
2"	3	3	$3\frac{1}{8}$	3	$3\frac{1}{8}$			2"
$2\frac{1}{4}$ "	$3\frac{3}{8}$	$3\frac{3}{8}$	$3\frac{1}{2}$	$3\frac{3}{8}$	$3\frac{1}{2}$			$2\frac{1}{4}$ "
$2\frac{1}{2}$ "	$3\frac{3}{4}$	$3\frac{3}{4}$	$3\frac{7}{8}$	$3\frac{3}{4}$	$3\frac{7}{8}$			$2\frac{1}{2}$ "
$2\frac{3}{4}$ "	$4\frac{1}{8}$	$4\frac{1}{8}$	$4\frac{1}{4}$	$4\frac{1}{8}$	$4\frac{1}{4}$			$2\frac{3}{4}$ "
3"	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{5}{8}$	$4\frac{1}{2}$	$4\frac{5}{8}$			3"

4- and 8-Point Sockets Are Used on Square Bolt Heads, Nuts and Screw Heads.

6- and 12-Point Sockets Are Used on Hexagonal Bolt Heads, Nuts and Screw Heads.

†Regular Square Bolts Only.

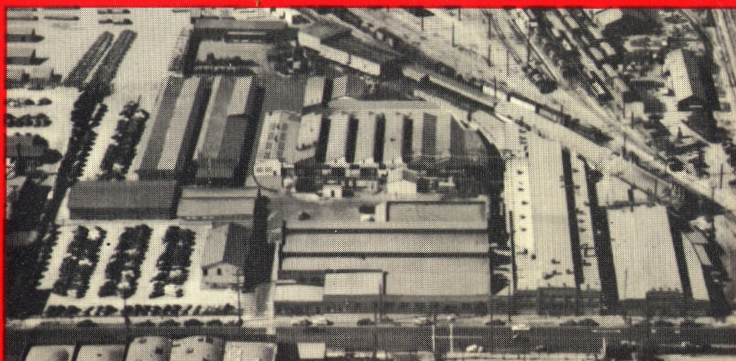
SIX MANUFACTURING PLANTS



Milwaukie (Portland), Ore., Factory



Schiller Park (Chicago), Ill., Factory



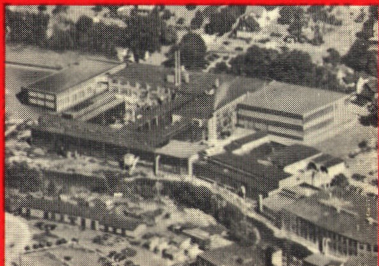
Main Factory and Offices in Los Angeles, Calif.



Los Angeles, Calif., Special Tools Factory



London, Ont., Factory (PROTO TOOLS of CANADA, Ltd.)



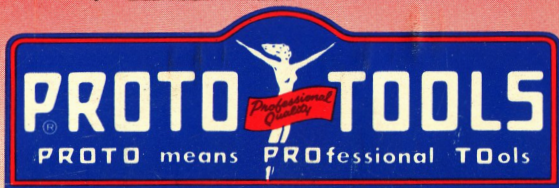
Jamestown, N. Y., Factory and Eastern Warehouse

Founded in 1907, PROTO is the World's largest producer today of high-quality hand service tools. Leadership is attributable mainly to the *professional* quality of

PROTO tools — resulting from intensive research, field-tested designs, special alloy steels, and superior manufacturing in the six modern, efficient plants shown above.

Catalog No. 5629
Issued by

PROTO TOOL COMPANY



Descriptive Price List 5702

Effective July 15, 1957

Reprinted May 26, 1958

Supersedes Previous Price Lists

800

Weathering Index

Prices are recommended net prices to users. There are no Federal excise taxes applying to the products covered by this price list.

Prices, design, finish and material analysis are subject to change without notice.

Catalog page numbers apply to catalogs 5626, 5627, 5628 and 5629. (Four-digit number in Cat. Page column identifies Supplement listing item.)

*Packaged in boxes if ordered in multiples of 6.

**Packaged in boxes if ordered in multiples of 12.

Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
Feeler Gauge Sets & Holder											
000A*	1.60	Standard Gauge Set	62	33%In*	.99	Long Calker, Inside	75	96%*	.89	Drift Punch, 1/4" Point	72
000AA*	2.89	Standard Gauge Set	62	33%Out*	.99	Long Calker, Outside	75	96%*	.89	Drift Punch, 3/4" Point	72
000B*	1.41	Step-Cut Gauge Set	62	033%In*	.99	Offset Calker, Inside	75	96%*	1.05	Drift Punch, 1/2" Point	72
000BB*	2.57	Step-Cut Gauge Set	62	033%Out*	.99	Offset Calker, Outside	75	96%*	1.15	Drift Punch, 3/4" Point	72
000C*	.25	Feeler Gauge Holder	62	033%In*	1.29	Offset Calker, Inside	75	96%*	1.19	Drift Punch, 1/2" Point	72
000D	1.29	Ignition Gauge Set	62	033%Out*	1.29	Offset Calker, Outside	75	96%*	1.39	Drift Punch, 3/4" Point	72
000E	1.29	Brake Gauge Set	62	034%In*	1.29	Offset Calker, Inside	75	100	.25	Key Ring Screwdriver	47
000K	1.25	Spark Plug Gauge Set	62	034%Out*	1.29	Offset Calker, Outside	75	100HR	7.85	Hip-Roof Box, 22x7x8 1/2	79
000M*	1.79	Offset Gauge Set	62	35%*	.79	Offset Screwdr., 1/4" Bits	47	107%*	1.75	Water Main Calker	75
				36%*	.89	Offset Screwdr., 1/2" Bits	47	107%*	1.99	Water Main Calker	75
				36%*	1.05	Offset Screwdr., 3/4" Bits	47	108*	2.05	Water Main Calker	75
				37%*	1.05	Offset Screwdr., 1/2" Bits	47	110*	1.69	Lead-Picking Tool	74
				37%*	.69	Soil Pipe Chisel, 3/4" Cut	74	112*	1.59	Lead-Picking Tool	74
				37%*	.95	Soil Pipe Chisel, 1/2" Cut	74	130*	2.99	Ceiling Calker	75
				37%*	1.25	Soil Pipe Chisel, 3/4" Cut	74	131%*	1.39	Long Gasket Calker	75
				41%*	.49	Center Punch, 4 1/2"	72	131%*	1.79	Long Gasket Calker	75
				41%*	.49	Center Punch, 4 1/2"	72	132%*	2.19	Left Calker	75
				41%*	.59	Center Punch, 4 1/2"	72	132R*	2.19	Right Calker	75
				41%*	.69	Center Punch, 5 1/2"	72	135%*	1.19	Bending Iron, 1/2" Stock	74
				41%*	.79	Center Punch, 5 1/2"	72	135%*	1.39	Bending Iron, 3/4" Stock	74
				41%*	.89	Center Punch, 5 1/2"	72	136*	2.79	Tube Expander, 3 Steps	74
				44%*	.49	Prick Punch, 4 1/2"	72	140A	16.29	3 Int. Pipe Wrchs. in Kit	75
				44%*	.59	Prick Punch, 5 1/2"	72	140A	4.84	Internal Pipe Wrench 1/2"	75
				44%*	.65	Prick Punch, 5 1/2"	72	140I	1.69	Set of 3 Jaws for 140	75
				47A	6.12	Rivet or Pin Punch Set	73	140S	1.69	Screw Only for 140	75
				47 1/2%*	.65	Rivet or Pin Punch, 4 1/2"	72	141*	5.26	Internal Pipe Wrench 3/4"	75
				47 1/2%*	.65	Rivet or Pin Punch, 4 1/2"	72	141I	1.85	Set of 3 Jaws for 141	75
				47 1/2%*	.75	Rivet or Pin Punch, 5 1/2"	72	141S	1.85	Screw Only for 141	75
				47 1/2%*	.75	Rivet or Pin Punch, 5 1/2"	72	142*	5.64	Internal Pipe Wrench, 1"	75
				47 1/2%*	.75	Rivet or Pin Punch, 5 1/2"	72	142I	1.99	Set of 3 Jaws for 142	75
				47 1/2%*	.79	Rivet or Pin Punch, 6 1/2"	72	142S	1.99	Screw Only for 142	75
				47 1/2%*	.89	Rivet or Pin Punch, 6 1/2"	72				
				50%*	.55	Starting Punch, 3/4" Pt.	72	Pliers & "Handeze" Grips			
				50%*	.55	Starting Punch, 3/4" Pt.	72	200A	9.24	Mdsr. & 36 "Handeze"	
				50%*	.55	Starting Punch, 3/4" Pt.	72			Plastic Tool Grips	55
				50%*	.55	Starting Punch, 3/4" Pt.	72	200L	.29	Pr. Handeze Grips, Large	55
				50%*	.55	Starting Punch, 3/4" Pt.	72	200M	.25	Pr. Handeze Grips, Med.	55
				50%*	.55	Starting Punch, 3/4" Pt.	72	200S	.25	Pr. Handeze Grips, Small	55
				50%*	.85	Starting Punch, 1/2" Pt.	72	1201	1.45	Thin Jaw Pliers, 5 1/2"	48
				72%*	.69	Cape Chisel, 1/4" Cut	72	1202	1.49	Thin Jaw Pliers, 6 1/2"	48
				72%*	.69	Cape Chisel, 1/4" Cut	72	1203	1.89	Bent Ns. Plier, 30", 6 1/2"	48
				72%*	.89	Cape Chisel, 3/4" Cut	72	204	2.65	Diagonal Plier, 4 1/2"	48
				72%*	1.09	Cape Chisel, 3/4" Cut	72	204A	2.85	204 with Handeze Grips	48
				76%*	.65	Diamond Chisel, 3/4" Cut	72	204T	3.65	"Snap-Grip" Plier, 4 1/2"	48
				76%*	.69	Diamond Chisel, 3/4" Cut	72	205	3.15	Diagonal Plier, 5"	5832
				76%*	.75	Diamond Chisel, 3/4" Cut	72	205SG	3.69	205 with Spring & Grip	5832
				76%*	.85	Diamond Chisel, 3/4" Cut	72	205SGT	4.75	205 w/Sprg. & Snap-Grip	5832
				80%*	.65	Rd. Nose Chisel, 1/4" Cut	72	206	3.29	Diagonal Plier, 6"	48
				80%*	.75	Rd. Nose Chisel, 1/4" Cut	72	206G	4.29	206 with Handeze Grips	48
				80%*	.85	Rd. Nose Chisel, 1/4" Cut	72	206T	4.29	"Snap-Grip" Plier, 6"	48
				80%*	.85	Rd. Nose Chisel, 1/4" Cut	72	207	3.69	Diagonal Plier, 7"	48
				80%*	1.09	Rd. Nose Chisel, 3/4" Cut	72	207G	3.89	207 with Handeze Grips	48
				84%*	2.09	Concrete Gad, 12"	74	209	3.19	Heavy Diagonal Plier, 7"	48
				84%*	2.25	Concrete Gad, 12"	74	209G	3.39	209 with Handeze Grips	48
				84%*	2.59	Concrete Gad, 12"	74	211S	3.80	Transverse Cut w/Spring, 5 1/2"	5832
				86%*	.55	Cold Chisel, 1/4" Cut	72	215*	3.05	Brake Sprg. Plier, 12 1/2"	49
				86%*	.59	Cold Chisel, 1/4" Cut	72	216*	3.25	Bendix Brake Plier, 11 1/2"	49
				86%*	.69	Cold Chisel, 3/4" Cut	72	217*	4.29	Comb. Brake Plier, 13 1/2"	49
				86%*	.75	Cold Chisel, 3/4" Cut	72	218	1.79	Battery Plier, 8"	49
				86%*	.85	Cold Chisel, 3/4" Cut	72	218G	1.99	218 with Handeze Grips	49
				86%*	1.19	Cold Chisel, 3/4" Cut	72	220	2.89	Needle Nose Pliers, 6 1/2"	49
				86%*	1.39	Cold Chisel, 3/4" Cut	72	220G	3.09	220 with Handeze Grips	49
				86%*	1.205	Cold Chisel, 3/4" Cut	72	221	3.95	Fisherman's Plier, 6 1/2"	49
				86%*	1.85	Cold Chisel, 1" Cut	72	221A*	4.95	Fisherman's Plier & Sheath	49
				86%*	1.49	Cold Chisel, 1" Cut	72	221B	29.70	Mdsr. & Six 221A Sets	49
				86%*	1.99	Cold Chisel, 1 1/4" Cut	72	221C	29.70	Mdsr. & Six 221 Pliers	49
				96 1/4%*	.75	Drift Punch, 3/4" Point	72			(If For Spare Parts, See Page 12)	

Price List 5702, Issued by PROTO TOOL COMPANY — Division of Pendleton Tool Industries, Inc.

2209 Santa Fe Ave., Los Angeles 54, Calif. Eastern Plant and Warehouse — 583 Allen St., Jamestown, N.Y.

*Packaged in boxes when ordered in multiples of 6.

Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
Pliers — Continued				286P	2.99	286B with Full Polish	54	Heavy-Duty 12-Pt. Box Wrenches			
222	2.95	Needle Nose Pliers, 6 1/2"	50	287B	4.19	Flush Cut Diag., 4"	5832	1036	3.09	1 1/2" x 7/8" Openings	19
222G	3.15	222 with Handze Grips	50	287BS	4.49	287B with Spring	5832	1051	6.55	1 1/2" x 1 1/4" Openings	19
223	2.95	Long Needle Nose, 6"	5832	291	2.49	Lever-Wrench Plier, 8"	54	1053	6.55	1 1/2" x 1 1/4" Openings	19
1224	3.89	Ndl. Nose Cutg. Plier, 6"	50	298*	1.70	Wire Stripper, 5 1/2"	55	1061	8.85	1 1/2" x 1 1/4" Openings	19
1224G	4.09	224 with Handze Grips	50	299*	1.25	Wire Stripper with Stop & Handze Grips	5635	1063	9.19	1 1/2" x 1 1/4" Openings	19
225	3.39	Curved Ndl. Nose Pl., 6"	50	299A	15.00	Mdsr. & 12 299 Strippers	5635	1066	15.69	1 1/2" x 2" Openings	19
225G	3.59	225 with Handze Grips	50	(For Spare Parts, See Page 12)				1069	20.25	2 1/4" x 2 1/2" Openings	19
226	3.25	Needle Nose Plier, 6 1/2"	50	All-Purpose Snips				12-Pt. Box Wrenches & Sets			
226G	3.45	226 with Handze Grips	50	303L	4.75	Multi-Lvrg., Left, 10 1/2"	55	1100K	11.74	Set of 5 Wrenches in Kit	13
227	2.95	Duck Bill Plier, 8"	50	303LG	5.25	303L with Handze Gr.	55	1100M	30.27	Set of 10 Wrenches in Kit	13
227G	3.15	227 with Handze Grips	50	303R	4.75	Multi-Lvrg., Rt., 10 1/2"	55	1120*	1.55	3/4" x 3/8" Ops., 4 1/2" Long	12
228	2.99	Chain Nose Plier, 8"	50	303RG	5.25	303R with Handze Gr.	55	1120*	1.65	3/4" x 3/8" Ops., 7 1/2" Long	12
228G	3.29	228 with Handze Grips	50	303S	4.75	Multi-Lvrg., St., 10 1/2"	55	1122*	1.55	3/4" x 3/8" Ops., 4 1/2" Long	12
1230*	1.39	Ignition Plier, 4 1/2"	51	303SG	5.25	303S with Handze Gr.	55	1122*	1.65	3/4" x 3/8" Ops., 7 1/2" Long	12
1230A	16.68	Mdsr. & 12 230 Pliers	51	307	2.79	Duckbill or Circular, 7"	55	1125*	1.55	3/4" x 3/8" Ops., 5 1/2" Long	12
1234	3.09	"Multi-Plier," 7 1/2"	51	310	3.49	Duckbill or Circular, 10"	55	1125*	1.65	3/4" x 3/8" Ops., 7 1/2" Long	12
1235*	1.79	Ignition Plier, 4 1/2"	51	312	4.49	Duckbill or Circl., 12 1/2"	55	1125R	6.00	3/4" x 3/8" Ops., 5 1/2" Lg.	12
1236	2.15	Wrench Plier, 6"	51	317	2.49	Straight or Regular, 7"	55	1126*	1.55	3/4" x 3/8" Ops., 5 1/2" Long	12
1238	3.15	Wrench Plier, 7 1/2"	51	320	3.29	Straight or Regular, 10"	55	1126*	1.65	3/4" x 3/8" Ops., 8 1/2" Long	12
1239	2.49	Wrench Plier, 8"	51	322	4.25	Straight or Reg., 12 1/2"	55	1127*	1.65	3/4" x 3/8" Ops., 5 1/2" Lg.	12
1240	2.69	Heavy Utility Plier, 9"	51	330	3.65	Combination Pattern, 10"	55	1130*	1.75	3/4" x 3/8" Ops., 5 1/2" Long	12
1241	2.05	Light Utility Plier, 9 1/2"	51	332	4.59	Comb. Pattern, 12 1/2"	55	1130*	1.85	3/4" x 3/8" Ops., 8 1/2" Long	12
1242	3.45	Multi-Grv. Jt. Plier, 7 1/2"	52	Hacksaws				1131*	1.85	3/4" x 3/8" Ops., 6 1/2" Long	12
1243	2.15	Multi-Groove Jt. Plier, 10"	52	344	1.25	Low-Clearance Hacksaw	66	1131*	2.09	3/4" x 3/8" Ops., 9 1/2" Long	12
1245	3.15	Utility Slip Jt. Plier, 9 1/2"	52	352	3.49	Adjustable Hacksaw	66	1133*	2.29	3/4" x 3/8" Ops., 10 1/2" Long	12
1246	1.99	Comb. Side Cut Plier, 6"	52	360	2.65	Adjustable Hacksaw	66	1134	2.29	3/4" x 3/8" Ops., 10 1/2" Lg.	12
1248	4.25	Plier with Brass & Nylon Insert Jaws, 11 1/2"	52	All-Angle Drill				1135	2.45	3/4" x 3/8" Ops., 11 1/2" Lg.	12
248B	3.95	Plier with Brass Jaws	55	370	5.85	1/2" Drill Capacity	63	1136	2.45	3/4" x 3/8" Ops., 11 1/2" Lg.	12
248N	3.95	Plier with Nylon Jaws	55	370B	16.35	Mdsr. & 3 Drills	63	1137*	2.45	3/4" x 3/8" Ops., 11 1/2" Lg.	12
248H	.55	2 Brass Jaw Inserts & 4 Screws for 248	55	370C	65.40	Mdsr. & 12 Drills	63	1139*	2.59	3/4" x 3/8" Ops., 13 1/2" Lg.	12
248J	.85	2 Nylon Jaw Inserts & 4 Screws for 248	52	Adjustable Wrenches				1140*	2.59	3/4" x 3/8" Ops., 13 1/2" Lg.	12
1250	2.89	Lock-Ring Plier, 8 1/2"	52	1700A	21.87	Box of 72 Spare Parts	9	1141	4.65	3/4" x 1 1/4" Ops., 14 1/2" Lg.	12
1251	4.25	Lock-Ring Plier, 9 1/2"	52	700L	38.76	Mdsr. and 12 "Click-Stop" Wrenches	5832	1145	4.75	3/4" x 1 1/4" Ops., 15 1/2" Lg.	12
252	3.29	Hose Clamp Plier, 7 1/2"	53	700L2	77.52	Mdsr. and 24 "Click-Stop" Wrenches	5832	1147	5.19	3/4" x 1 1/4" Ops., 16 1/2" Lg.	12
1257	1.69	Heavy Utility Plier, 7"	53	1704	2.35	Full-Finish, 4"	9	1150	5.19	3/4" x 1 1/4" Ops., 17 1/2" Lg.	12
258	2.55	Gas Plier, 8 1/2"	53	1704L	2.35	Full-Fin. "Click-Stop", 4"	9	1151	5.39	3/4" x 1 1/4" Ops., 18 1/2" Lg.	12
260	1.99	Telephone Plier, 6 1/2"	53	1704S	1.85	Semi-Finish, 4"	9	1155	6.15	3/4" x 1 1/4" Ops., 19 1/2" Lg.	12
260G	2.19	260 with Handze Grips	53	1706	2.39	Full-Finish, 6"	9	1160	6.29	1 1/4" x 1 1/4" Ops., 20 1/2" Lg.	12
266	3.35	Lineman's Plier, 6"	53	1706L	2.39	Full-Fin. "Click-Stop", 6"	9	1161	6.65	1 1/4" x 1 1/4" Ops., 21 1/2" Lg.	12
266G	3.55	266 with Handze Grips	53	1706S	1.89	Semi-Finish, 6"	9	1162	7.99	1 1/4" x 1 1/4" Ops., 22 1/2" Lg.	12
267	4.25	Lineman's Plier, 7"	53	1706*	2.75	Full-Finish, 8"	9	1163	10.35	1 1/4" x 1 1/4" Ops., 23 1/2" Lg.	12
268	4.55	Lineman's Plier, 8"	53	1708	1.85	Full-Finish, 8"	9	1164	10.75	1 1/4" x 1 1/4" Ops., 24 1/2" Lg.	12
268G	4.75	268 with Handze Grips	53	1708*	2.25	Full-Fin. "Click-Stop", 8"	9	Ratcheting Box Wrenches			
1275	1.15	Slip Joint Plier, 6"	53	1708S	2.25	Semi-Finish, 8"	9	1191*	2.75	1 1/2" x 3/4" Ops., 4 1/2" Lg.	13
1276	1.29	Slip Joint Plier, 6 1/2"	53	1710	3.55	Full-Finish, 10"	9	1192*	3.29	3/4" x 3/8" Ops., 5 1/2" Lg.	13
1278	1.75	Slip Joint Plier, 8"	53	1710S	3.55	Full-Fin. "Click-Stop", 10"	9	1193	4.05	3/4" x 3/8" Ops., 6 1/2" Lg.	13
1280	2.49	Slip Joint Plier, 10"	53	1710S	2.85	Semi-Finish, 10"	9	1194	4.35	3/4" x 3/8" Ops., 8" Long	13
On the following Midget Pliers:				1712	5.19	Full-Finish, 12"	9	1195*	4.89	3/4" x 3/8" Ops., 9 1/4" Long	13
"B" indicates Parco-Lubrite Finish.				1712L	5.19	Full-Fin. "Click-Stop", 12"	9	1196*	4.35	3/4" x 3/8" Ops., 8 1/4" Lg.	13
"G" indicates "Handze" Plastic Grips.				1712S*	4.19	Semi-Finish, 12"	9	Combination Box & Open End Wrenches & Sets			
"P" indicates Full Polish—as shown in catalog without "P" suffix.				1716	7.99	Full-Finish, 16"	9	1200F	51.20	Set of 15 Wrenches in Kit	15
"S" indicates Coil Spring				1716L	7.99	Full-Fin. "Click-Stop", 16"	9	1200H	14.78	Set of 7 Wrenches in Kit	15
"T" indicates Cushion Throat				1716S	6.99	Semi-Finish, 16"	9	1200L	19.76	Set of 9 Wrenches in Kit	15
More than one letter indicates combination of above.				1720L	14.95	Full-Fin. "Click-Stop", 20"	9	1200M	15.49	Set of 7 Metric Wrenches in Kit	15
281B	1.79	Straight Nose Plier, 4 1/2"	54	1720S	12.49	Semi-Finish, 20"	9	Pipe Wrenches			
281G	1.99	281B with Handze Grips	54	1806*	1.95	Normal-Duty, 6"	18	1206W*	2.05	3/4" Whitworth Ops., 5 1/2"	7
281P	2.09	281B with Full Polish	54	1806HD	2.69	Heavy-Duty, 6"	18	1208	1.15	3/4" Ops., 6-Pt. Box, 3"	14
282B	2.45	Chain Nose Plier, 4 1/2"	54	1808*	2.25	Normal-Duty, 8"	18	1208L	1.35	3/4" Ops., 6-Pt. Box, 4"	14
282BS	2.75	282B with Spring, 4 1/2"	5832	1808HD	3.15	Heavy-Duty, 8"	18	1208W	2.15	3/4" Whitworth Ops., 6"	7
282G	2.65	282B with Handze Grips	54	1810*	2.89	Normal-Duty, 10"	18	1210	1.35	3/4" Ops., 12-Pt. Box, 3 1/2"	14
282P	2.99	282B with Full Polish	54	1810HD	4.15	Heavy-Duty, 10"	18	1210L	1.39	3/4" Ops., 12-Pt. Box, 5 1/2"	14
283B	2.89	Round Nose Plier, 4 1/2"	54	1814*	3.95	Normal-Duty, 14"	18	1210LH	1.39	3/4" Ops., 6-Pt. Box, 5 1/2"	14
283BS	3.19	283B with Spring, 4 1/2"	5832	1814HD	5.35	Heavy-Duty, 14"	18	1210M	1.59	10mm. Ops., 4 1/2" Long	5832
283G	3.09	283B with Handze Grips	54	1818*	5.59	Normal-Duty, 18"	18	1210W	2.35	3/4" Whitworth Ops., 7 1/2"	7
283P	3.49	283P with Full Polish	54	1818HD	7.55	Heavy-Duty, 18"	18	1211*	1.39	3/4" Ops., 6-Pt. Box, 4"	14
284B	3.25	End Cutting Nipper, 4"	54	1824*	9.75	Normal-Duty, 24"	18	1211M	1.65	10mm. Ops., 5 1/2" Long	5832
284BS	3.55	284B with Spring, 4"	5832	1824HD	12.49	Heavy-Duty, 24"	18	1212*	1.45	3/4" Ops., 12-Pt. Box, 4 1/2"	14
284G	3.45	284B with Handze Grips	54	(For Spare Parts, See Page 12)				1212L	1.55	3/4" Ops., 12-Pt. Box, 6 1/2"	14
284P	3.89	284B with Full Polish	54	Pipe Wrenches				1212LH	1.55	3/4" Ops., 6-Pt. Box, 6 1/2"	14
285B	3.05	Diagonal Plier, 4"	54	1806*	1.95	Normal-Duty, 6"	18	1212M	1.79	12mm. Ops., 5 1/2" Long	5832
285BS	3.35	285B with Spring, 4"	5832	1806HD	2.69	Heavy-Duty, 6"	18	1212W	2.85	3/4" Whitworth Ops., 8 1/2"	7
285G	3.25	285B with Handze Grips	54	1808*	2.25	Normal-Duty, 8"	18	1213M	1.79	13mm. Ops., 6" Long	5832
285P	3.65	285B with Full Polish	54	1808HD	3.15	Heavy-Duty, 8"	18	1214	1.65	3/4" Ops., 12-Pt. Box, 5 1/2"	14
286B	2.49	Flat Nose Plier, 4 1/2"	5832	1810*	2.89	Normal-Duty, 10"	18	1214L	1.75	3/4" Ops., 12-Pt. Box, 7 1/2"	14
286BS	2.79	286B with Spring, 4 1/2"	5832	1810HD	4.15	Heavy-Duty, 10"	18	1214LH	1.75	3/4" Ops., 6-Pt. Box, 7 1/2"	14
286G	2.69	286B with Handze Grips	54	1814*	3.95	Normal-Duty, 14"	18	1214M	1.89	14mm. Ops., 6 1/4" Long	5832

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Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
1215M	2.05	15mm. Ops. 7 1/2" Long.	5832	1301B	1.70	Holder for 1 1/2" Diam. Tips		Special-Purpose Tools			
1216*	1.75	1/2" Ops., 12-Pt. Box, 6 1/2"	14	1302B	1.95	Holder for 2" Diam. Tips		2301*	1.85	Muffler Removal Tool	63
1216L*	1.85	1/2" Ops., 12-Pt. Box, 8 1/2"	14	1302H	4.55	Holder for 1392B & 1393B		2315	1.19	Piston Ring Compressor	63
1216HL*	1.89	1/2" Ops., 6-Pt. Box, 8 1/2"	14	1392M	1.25	Tip, Medium, 2" Diam.		2316	2.75	Piston Ring Compressor	63
1216M	2.25	16mm. Ops. 7 1/2" Long	5832	1392N	2.13	Tip, Med. Hard, 2" Diam.		2335*	1.45	Valve Guide Cleaner	63
1217M	2.29	17mm. Ops. 8 1/2" Long	5832	1392S	1.25	Tip, Soft, 2" Diam.		2335B	1.10	Extra Blade for 2335	63
1218*	1.89	3/8" Ops., 12-Pt. Box, 6 1/2"	14	1392T	1.25	Tip, Tough, 2" Diam.		2336*	1.95	Gasket Scraper	64
1218*	2.05	3/8" Ops., 12-Pt. Box, 9 1/2"	14	1392V	2.13	Tip, Hard, 2" Diam.		2337*	.65	Flexible Carbon Scraper	64
1218HL*	2.05	3/8" Ops., 6-Pt. Box, 9 1/2"	14	1393B	2.15	Holder for 2" Diam. Tips		2340*	1.19	Grab-A-Tool, 12"	64
1218M	2.55	18mm. Ops. 8 1/2" Long	5832	1394B	2.55	Holder for 2 1/2" Diam. Tips		2341*	1.49	Grab-A-Tool, 15"	64
1219M	2.55	19mm. Ops. 9 1/2" Long	5832	1394H	.58	Holder for 1394B & 1395B		2342*	1.65	Grab-A-Tool, 18"	64
1220*	2.05	3/8" Ops., 12-Pt. Box, 7 1/2"	14	1394M	2.18	Tip, Medium, 2 1/2" Diam.		2343*	1.95	Grab-A-Tool, 24"	64
1220L*	2.29	3/8" Ops., 12-Pt. Box, 10 1/2"	14	1394N	3.48	Tip, Med. Hard, 2 1/2" Diam.					
1220M	3.09	20mm. Op., 10 1/2" Long	5832	1394S	2.18	Tip, Soft, 2 1/2" Diam.		Automatic Transmission Band			
1222*	2.29	1 1/8" Ops., 12-Pt. Bx, 8 1/2"	14	1394T	2.18	Tip, Tough, 2 1/2" Diam.		Adjusting Sets & Parts			
1222L*	2.39	1 1/8" Ops., 12-Pt. Bx, 10 1/2"	14	1394V	3.48	Tip, Hard, 2 1/2" Diam.		2350	79.95	Set, without Counter	66
1222M	3.09	22mm. Op., 11 1/2" Long	5832	1395B	2.93	Holder for 2 1/2" Diam. Tips		2354	5.95	Front Servo Gauge	66
1224*	2.45	3/4" Ops., 12-Pt. Box, 9 1/2"	14	1396B	3.80	Holder for 3" Diam. Tips		2355*	1.55	Rear Servo Gauge	66
1224L*	2.75	3/4" Ops., 12-Pt. Bx, 11 1/2"	14	1396B	.63	Holder for 1396B & 1397B		2356*	2.45	Wrench, 3/8" Op., 1/2" Dr.	66
1226*	3.09	3/4" Ops., 12-Pt. Bx, 10 1/2"	12	1396M	3.35	Tip, Medium, 3" Diam.		2357	7.49	Adjuster without Counter	66
1228*	3.29	3/4" Ops., 12-Pt. Bx, 11 1/2"	14	1396S	3.35	Tip, Soft, 3" Diam.		2359	3.95	1/4" Square Gauge Block	
1230*	3.65	3/8" Ops., 12-Pt. Bx, 12 1/2"	14	1396T	3.35	Tip, Tough, 3" Diam.		2360	1.95	Band Adjusting Manual	
1232*	4.05	1" Ops., 12-Pt. Box, 13 1/2"	14	1397B	5.63	Holder for 3" Diam. Tips		2361	1.00	Uni-Adjusting Chart	
1234	4.89	1 1/8" Ops., 12-Pt. Bx, 14 1/2"	14	Body & Fender Tools							
1236	5.75	1 1/8" Ops., 12-Pt. Bx, 15 1/2"	13	1400SP	2.97	Set of 3 Solder Paddles	71	Tool Kits			
1240	6.65	1 1/2" Ops., 12-Pt. Box, 17 1/2"	14	1411*	.99	Flat Solder Pad, 1 1/8" W. 71		2402	1.45	12 3/8" x 7 1/2", 12 Pkts.	79
1242	7.49	1 3/4" Ops., 12-Pt. Box, 18 1/2"	14	1412*	.99	Crvd. Solder Pad, 1 1/8" W. 71		2403	.89	7 3/8" x 8 1/4", 7 Pkts.	79
1244	8.05	1 3/4" Ops., 12-Pt. Box, 19 1/2"	14	1413*	.99	Flat Solder Paddle, 1" W. 71		2404	1.25	11 3/8" x 10 1/2", 7 Pkts.	79
1246	9.19	1 3/4" Ops., 12-Pt. Bx, 20 1/2"	14	1416	5.69	Long Bumping Hammer	70	2400M as above for Electric Wrs.			
1248	10.35	1 3/4" Ops., 12-Pt. Bx, 21 1/2"	14	1416H	.79	Handle for 1416 & 1448	68	2405	1.55	10" x 15", 5 Pkts.	79
1252	11.49	1 3/4" Ops., 12-Pt. Box, 23 1/2"	14	1419*	3.99	Magnetic Trim Hammer	70	2406	2.85	21 1/2" x 15 1/2", 10 Pkts.	79
1254	13.25	1 3/4" Ops., 12-Pt. Box, 25 1/2"	14	1419H	.79	Handle for 1419	68	2407	1.15	10 1/2" x 8 3/4", 6 Pkts.	79
1256	17.25	1 3/4" Ops., 12-Pt. Box, 26 1/2"	14	1421*	3.75	Dingling Hammer	70	2408	95	7 3/8" x 9 1/2", 4 Pkts.	79
1258	17.25	1 3/4" Ops., 12-Pt. Box, 26 1/2"	14	1424*	3.35	Finishing Hammer	70	2409	1.35	9 1/2" x 11 1/2", 5 Pkts.	79
1260	18.25	1 3/4" Ops., 12-Pt. Box, 26 1/2"	14	1424H	.69	Handle for 1424 & 1427	68	2410	1.09	9 3/8" x 5 1/2", 9 Pkts.	79
1264	19.25	2" Ops., 12-Pt. Box, 26 1/2"	14	1425*	4.09	Finishing Hammer	70	2411	.79	5 3/8" x 8 1/2", 5 Pkts.	79
Ball Pein Hammers & Handles				1426*	4.49	Finishing Hammer	70	2412	1.19	6 3/8" x 11 1/2", 4 Pkts.	79
1304	2.15	Hammer, 4 oz.	5832	1426H	.69	Handle for 1421, 1425, 1426 & 1428	68	2413	4.95	25 x 18 1/2", 15 Pkts.	79
1304H	.55	Handle for 1304	5832	1427*	3.65	Finishing Hammer	70	2414	3.19	19 x 13 1/2", 10 Pkts.	79
1308	2.30	Hammer, 8 oz.	5832	1428*	3.85	Pecking Hammer	70	2415	2.39	12 3/8" x 13 1/2", 9 Pkts.	79
1308H	.55	Handle for 1308	5832	1429*	4.49	Pecking Hammer	70	2416	1.05	9 3/8" x 5 1/2", 9 Pkts.	79
1312	2.40	Hammer, 12 oz.	5832	1429H	.79	Handle for 1429	68	2417	.85	5 3/8" x 5 1/2", 5 Pkts.	79
1312H	.55	Handle for 1312	5832	1430*	4.49	Brass Hammer	68	2418	4.75	18 1/2" x 18 1/2", 10 Pkts.	79
1316	2.60	Hammer, 16 oz.	5832	1430H	.69	Handle for 1430	68	2422	1.99	12 3/8" x 13 1/2", 16 Pkts.	5832
1316H	.55	Handle for 1316	5832	1448	4.29	Two-Way Hammer	68	2450	1.95	7" x 9", 3 Pkts.	79
1324	2.95	Hammer, 24 oz.	5832	1448H	1.15	Rubber Head for 1448	68	Spud End 12-Pt. Box Wrenches			
1324H	.65	Handle for 1324	5832	1452	4.29	Egg-Shaped Dolly	71	2615	5.75	1 1/2" Opening	20
1332	3.50	Hammer, 32 oz.	5832	1453	5.99	All-Purpose Dolly	71	2617	6.25	1 3/4" Opening	20
1332H	.70	Handle for 1332	5832	1454	4.29	Radius Dolly	71	2618	6.25	1 3/4" Opening	20
Soft-Face Hammers & Parts				1455	3.89	Bead Dolly	71	2620	6.89	1 1/2" Opening	20
1368	2.99	Rubber Mallet	68	1457	3.89	Shrinking Dolly	71	2623	9.19	1 3/4" Opening	20
1368H	.85	Handle for 1368	68	1458	3.89	Heel Dolly	71	2624	9.19	1 1/2" Opening	20
1370C*	.59	Round Plastic Tip	68	1501*	4.49	Fender File	71	2626	10.75	1 3/4" Opening	20
1370H	.55	Handle for 1383	68	1509	5.49	File Holder, Aluminum	71	2627	10.75	1 1/2" Opening	20
1383*	2.79	Plastic-Tip Hammer	68					2629	11.29	1 3/4" Opening	20
Special Nupla Hammer Holders, Nuplalex Tips & Handles				Obstruction Box Wrenches							
(Hour-Glass Shaped Holders and Shorter-Than Standard Tips — Available While Supply Lasts at Prices Lower Than for Standard Holders and Tips. Listed on Page 8. Each Holder Includes Head and Handle Assembly. Order Holder and Tips Separately for Assembly into Complete Hammer.)				1725*	2.19	3/8" x 1 1/2" 12-Pt. Openings	17	2630	11.29	1 1/2" Opening	20
1388B	1.10	Holder for 1" Diam. Tips		1730*	2.59	3/8" x 3/4" 12-Pt. Openings	17	2632	12.05	2" Opening	20
1388H	.43	Handle for 1388B & 1398B		1731*	2.79	3/8" x 1/2" 12-Pt. Openings	17	2635	15.99	2 3/4" Opening	20
1388M	.55	Tip, Medium, 1" Diam.						2638	18.09	2 3/8" Opening	20
1388N	.70	Tip, Med. Hard, 1" Diam.		2006*	1.39	Brake Adjusting Tool	63	2641	20.45	2 3/4" Opening	20
1388S	.55	Tip, Soft, 1" Diam.		2007*	1.39	Brake Adjusting Tool	63	2644	20.45	2 3/4" Opening	20
1388T	.55	Tip, Tough, 1" Diam.		2008*	1.99	Offset Brake Wrench	63	2647	22.85	2 3/4" Opening	20
1388V	.70	Tip, Hard, 1" Diam.		2009*	1.49	Brake Bleeder Wrench	63	2650	24.95	3" Opening	20
1389B	1.25	Holder for 1 1/2" Diam. Tips		2010*	2.85	Brake Spring Tool	5832	Striking 12-Pt. Box Wrenches			
1390B	1.48	Holder for 1 3/8" Diam. Tips		2116*	2.09	Pry Bar, 16"	66	2617SW	9.75	1 1/4" Opening	20
1390H	.45	Handle for 1390B & 1391B		2120*	3.15	Pry Bar, 18"	66	2618SW	9.75	1 1/2" Opening	20
1390M	.83	Tip, Medium, 1 1/2" Diam.		2124*	4.19	Pry Bar, 24"	66	2620SW	10.25	1 3/4" Opening	20
1390N	1.33	Tip, Med. Hard, 1 1/2" Diam.		2126*	3.05	Rolling Head Bar, 16"	66	2621SW	10.25	1 1/2" Opening	20
1390S	.83	Tip, Soft, 1 1/2" Diam.		2130*	3.55	Rolling Head Bar, 18"	66	2623SW	12.55	1 3/8" Opening	20
1390T	.83	Tip, Tough, 1 1/2" Diam.		2135	27.60	Adjustable Bending Bar		2624SW	12.55	1 1/2" Opening	20
1390V	1.33	Tip, Hard, 1 1/2" Diam.		2135B	8.25	Body for 2135		2626SW	14.15	1 3/8" Opening	20
				2135H	3.05	Handle for 2135		2627SW	14.15	1 1/4" Opening	20
				2135S	8.15	Lower Arm for 2135		2629SW	15.19	1 3/8" Opening	20
				2135T	8.15	Upper Arm for 2135		2630SW	15.19	1 1/2" Opening	20
				2151	3.09	Four-Way Rim Wrench	63	2632SW	15.99	2" Opening	20
				2152	3.09	Four-Way Rim Wrench	63	2635SW	19.69	2 3/8" Opening	20

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*Packaged in boxes when ordered in multiples of 6.

Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
Open End Wrenches & Sets				Puller Sets & Parts							
3000H	22.67	Set of 10 Wrenches in Kit..11		SDB	244.17	Tools Only for Pullermart 60		4060E	15.03	Light-Duty Puller Set.....58	
3000N	9.94	Set of 5 Wrenches in Kit..11		4000AB	184.98	Master Puller Set.....60		4061	2.29	Yoke for Two Puller Jaws.57	
3016*	.89	$\frac{3}{8}$ x $\frac{1}{2}$ Ops., 4 $\frac{1}{2}$ Lg..10		4000D	15.57	Wheel Puller Set.....56		4063	.75	Adjusting Nut.....58	
3018*	.89	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 4 $\frac{1}{2}$ Lg..10		4000E	18.36	Wheel Puller Set.....56		4066	2.19	Outside Jaw.....57	
3020*	1.05	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 5 $\frac{1}{2}$ Lg..10		4001	19.64	Wheel Puller Set.....56		4067	2.45	Long Outside Jaw.....57	
3021*	1.15	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 5 $\frac{1}{2}$ Lg..10		4001A	22.43	Wheel Puller Set.....56		4070C	13.91	Light-Duty Puller Set.....58	
3025*	1.19	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 5 $\frac{1}{2}$ Lg..10		4001B	5.25	Puller Body Only.....56		4070E	14.69	Light-Duty Puller Set.....58	
3026*	1.35	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 6" Long.....10		4001C	.89	Ford Adapter Cap Screw.....56		4071	3.15	Yoke for Three Jaws.....57	
3027*	1.35	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 6 $\frac{1}{2}$ Lg..10		4001J	2.19	Puller Leg.....56		4080	5.64	Blind Bearing Puller Set..61	
3030*	1.55	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 6 $\frac{1}{2}$ Lg..10		4001T	2.19	Puller Leg.....56		4080B	3.15	Body Only for 4080.....61	
3031*	1.85	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 7 $\frac{1}{2}$ Lg..10		4001P	2.29	Ford Adapter Ring.....56		4080S	2.49	Screw Only for 4080.....61	
3033*	1.85	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 7 $\frac{1}{2}$ Lg..10		4001S	3.75	Screw with Tip 4001ST.....56		4510	10.45	Wedge Stud Remv., $\frac{1}{2}$ " Dr.61	
3034*	1.85	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 8 $\frac{1}{2}$ Lg..10		4001ST	.79	Tip Only for Screw 4001S.....56		4511	2.95	Wedge Assembly Repair Kit for 4510.....61	
3035*	2.05	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 8 $\frac{1}{2}$ Lg..10		4001T	2.89	Puller Set Box.....56		4512	4.35	Revolving Sleeve Assembly Repair Kit for 4510.....61	
3036*	2.29	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 9" Long.....10		4010B	27.44	Heavy-Duty Puller Set.....59		4515*	4.39	Stick Remover, $\frac{1}{2}$ " Drive..61	
3037*	2.29	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 9 $\frac{1}{2}$ Lg..10		4010C	27.44	Heavy-Duty Puller Set.....59		4516	1.09	Thick Wedge for 4515.....61	
3038	2.29	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 10" Lg..10		4011	6.25	Puller Crossarm.....59		4517	1.09	Thin Wedge for 4515.....61	
3039*	2.29	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 10 $\frac{1}{2}$ Lg..10		4011S	.29	Spring for Jaws 4015.....59		4532	13.59	Stick Remover, $\frac{3}{4}$ " Drive..61	
3040*	2.49	$\frac{1}{2}$ x $\frac{3}{8}$ Ops., 10 $\frac{1}{2}$ Lg..10		4012	4.39	Screw with Tip 4012T.....59		4533	1.65	Thick Wedge for 4532.....61	
3041*	3.15	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 11 $\frac{1}{2}$ Lg..10		4012T	.79	Tip Only for Screw 4012.....59		4534	1.65	Thin Wedge for 4532.....61	
3042*	2.99	$\frac{1}{2}$ x $\frac{1}{2}$ Ops., 11 $\frac{1}{2}$ Lg..10		4015	4.05	Puller Jaw.....59		$\frac{1}{4}$" Square Drive Sockets, Attachments & Set			
3045*	3.45	$\frac{1}{2}$ x 1 Ops., 12" Long.....10		4016	4.35	Puller Jaw.....59		4700B	13.13	Set in Metal Box.....33	
3047*	3.65	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 13" Lg..10		4017	4.35	Timing Gear Jaw.....59		4704M	.59	Socket, 6-PT., 4 mm. Op..8	
3048	3.79	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 13 $\frac{1}{2}$ Lg..10		4018	4.35	Cap Screw Jaw.....59		4705M	.59	Socket, 6-PT., 5 mm. Op..8	
3050	3.95	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 13 $\frac{1}{2}$ Lg..10		4019	4.49	Puller Set Box.....59		4706*	.59	Socket, 6-PT., $\frac{3}{8}$ " Op..32	
3051	4.75	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 14 $\frac{1}{2}$ Lg..10		4020A	21.31	Medium-Duty Puller Set.....59		4706M	.59	Socket, 6-PT., 6 mm. Op..8	
3055	7.19	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 16 $\frac{1}{2}$ Lg..10		4020B	18.46	Medium-Duty Puller Set.....59		4707*	.59	Socket, 6-PT., $\frac{7}{8}$ " Op..32	
3060	7.19	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 17 $\frac{1}{2}$ Lg..10		4020C	6.76	Pulley & Gear Puller Set.....59		4707M	.59	Socket, 6-PT., 7 mm. Op..8	
3061	7.19	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 17 $\frac{1}{2}$ Lg..10		4021	4.69	Puller Crossarm.....59		4707*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..5832	
3065	8.05	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 19 $\frac{1}{2}$ Lg..10		4021S	.29	Spring for Jaws 4025, 4026 and 4027.....59		4708*	.59	Socket, 6-PT., $\frac{1}{4}$ " Op..32	
3070	9.19	$\frac{1}{2}$ x 1 $\frac{1}{2}$ Ops., 19 $\frac{1}{2}$ Lg..10		4022	2.69	Screw with Two Tips.....59		4708*	.59	Deep Skt., 6-PT., $\frac{1}{2}$ " Op..32	
15°-60° Midget Open End Wrenches & Sets				4022T	.55	Large-Diam. Tip for 4022.....59		4708M	.59	Socket, 6-PT., 8 mm. Op..8	
3200B	6.60	4 Wrenches & Plier in Kit..16		4022TS	.55	Small-Diam. Tip for 4022.....59		4708S*	.65	Socket, 8-PT., $\frac{1}{2}$ " Op..32	
3200D	10.76	8 Wrenches & Plier in Kit..16		4025	2.65	Puller Jaw.....59		4708T*	.59	Socket, 12-PT., $\frac{1}{4}$ " Op..32	
3210*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4026	2.89	Puller Jaw.....59		4709*	.59	Socket, 6-PT., $\frac{3}{8}$ " Op..32	
3211*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4028	2.89	Puller Jaw.....59		4709M	.59	Deep Skt., 6-PT., $\frac{1}{2}$ " Op..32	
3215*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4029	2.99	Cap Screw for 4020C Set.....59		4709M	.59	Socket, 6-PT., 9 mm. Op..8	
3216*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4030A	49.13	Heavy-Duty Puller Set.....59		4709*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..5832	
3220*	.99	$\frac{3}{8}$ x $\frac{3}{8}$ Openings.....16		4030B	44.84	Heavy-Duty Puller Set.....59		4710*	.59	Socket, 6-PT., $\frac{1}{2}$ " Op..32	
3221*	.99	$\frac{3}{8}$ x $\frac{3}{8}$ Openings.....16		4032	15.56	Bearing Separator Set.....58		4710M	.59	Deep Skt., 6-PT., $\frac{1}{2}$ " Op..32	
3225*	.99	$\frac{3}{8}$ x $\frac{3}{8}$ Openings.....16		4032A	5.49	Top Half of 4032.....58		4710S*	.65	Socket, 8-PT., $\frac{3}{8}$ " Op..32	
3226*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4032B	5.49	Bottom Half of 4032.....58		4710T*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..32	
15°-80° Midget Open End Wrenches & Set				4032S	2.29	Bolt and Nut for 4032.....58		4711*	.59	Socket, 6-PT., $\frac{1}{2}$ " Op..32	
3300A	10.20	Set of 9 Wrenches in Kit..16		4040	12.05	Set of 11 Step Plates.....58		4711*	1.05	Deep Skt., 6-PT., $\frac{1}{2}$ " Op..32	
3314*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-1	.55	Step Plate, $\frac{3}{4}$ " x 1" D.....58		4711M	.59	Socket, 6-PT., 11 mm. Op..8	
3315*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-2	.65	Step Plate, $\frac{3}{4}$ " x $\frac{1}{2}$ " D.....58		4711T*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..32	
3316*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-3	.69	Step Plate, 1" x 1 $\frac{1}{2}$ " D.....58		4712*	.59	Socket, 6-PT., $\frac{3}{8}$ " Op..32	
3318*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-4	.79	Step Plt., 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " D.....58		4712*	1.05	Deep Skt., 6-PT., $\frac{3}{8}$ " Op..32	
3320*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-5	.89	Step Plt., 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " D.....58		4712M	.59	Socket, 6-PT., 12 mm. Op..8	
3322*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-6	1.05	Step Plt., 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " D.....58		4712S*	.65	Socket, 8-PT., $\frac{3}{8}$ " Op..32	
3324*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-8	1.09	Step Plt., 1 $\frac{1}{2}$ " x 2" D.....58		4712T*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..32	
3328*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-9	1.25	Step Plate, 1 $\frac{1}{2}$ " x 2" D.....58		4712*	.59	Socket, 6-PT., $\frac{1}{2}$ " Op..32	
3329*	.99	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-10	1.65	Step Plt., 1 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " D.....58		4714*	1.09	Deep Skt., 6-PT., $\frac{1}{2}$ " Op..32	
3328*	1.09	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-11	1.95	Step Plt., 1 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " D.....58		4714T*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..32	
3332*	1.09	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-12	2.05	Step Plt., 2" x 2 $\frac{1}{2}$ " D.....58		4716*	.59	Socket, 12-PT., $\frac{1}{2}$ " Op..32	
3336*	1.09	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....16		4040-13	2.19	Step Plt., 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " D.....58		4737*	1.49	Phillips Socket, #1 Bit.....32	
3340*	1.45	$\frac{3}{8}$ x $\frac{3}{8}$ Openings.....16		4040-14	2.59	Step Plt., 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " D.....58		4737L*	1.55	Lg. Phillips Skt., #1 Bit.....32	
Tappet Wrenches & Set				4041*	4.19	Battery Terminal Puller.....61		4738*	1.55	Phillips Socket, #2 Bit.....32	
3400G	8.49	Set of 4 Wrenches in Kit..11		4042	2.85	Battery Terminal Puller.....61		4738L*	1.55	Lg. Phillips Skt., #2 Bit.....32	
3425*	1.75	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....11		4043	4.89	Steering Wheel Puller Set.....61		4742*	1.65	Allen Socket, $\frac{1}{4}$ " Hex Bit.....32	
3426*	1.85	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....11		4043B	2.19	Body Only for Puller 4043.....61		4743*	1.69	Screwdriver Skt., $\frac{3}{8}$ " Bit.....32	
3430*	1.85	$\frac{3}{8}$ x $\frac{1}{2}$ Openings.....11		4043S	2.15	Screw for 4043 with Tip.....61		4744*	1.29	Screwdriver Skt., $\frac{1}{2}$ " Bit.....32	
3435*	2.05	$\frac{3}{8}$ x $\frac{3}{8}$ Openings.....11		4043T	.55	Tip Only for Screw 4043S.....61		4745*	1.29	Screwdriver Skt., $\frac{1}{4}$ " Bit.....32	
3440*	2.29	$\frac{3}{8}$ x $\frac{3}{8}$ Openings.....11		4056	18.88	Slide-Hammer Puller Set.....57		4749*	3.95	Reversible Ratchet, $\frac{1}{2}$ ".....33	
Flare Nut Wrenches				4056A	14.42	Pilot Bearing Puller Set.....57		4750*	3.95	Reversible Ratchet, $\frac{1}{4}$ ".....33	
3712*	1.85	$\frac{3}{8}$ " Opening.....18		4056B	58.82	Slide-Hammer Puller Set.....57		(For Spare Parts, See Page 12)			
3714*	1.89	$\frac{3}{8}$ " Opening.....18		4056C	2.29	Cap Screw Crossarm.....67		4759*	.89	Extension, 2".....33	
3716*	1.95	$\frac{3}{8}$ " Opening.....18		4056D	1.29	Sliding Hammer.....57		4760*	.99	Extension, 3 $\frac{1}{2}$ ".....33	
3718*	2.05	$\frac{3}{8}$ " Opening.....18		4056E	1.95	Reversible Jaw.....57		4761*	1.19	Extension, 6".....33	
3720*	2.05	$\frac{3}{8}$ " Opening.....18		4056F	2.45	Inside Jaw.....57		4763*	1.79	Extension, 14".....33	
3724*	2.29	$\frac{3}{8}$ " Opening.....18		4056PN	.25	Pin.....57		4765*	1.59	Flexible Extension, 6".....33	
3728*	2.59	$\frac{3}{8}$ " Opening.....18		4056R	3.39	T-Handle Rod, 24".....57		4766*	2.49	Hinge Handle, 5 $\frac{1}{2}$ ".....33	
3732*	2.79	$\frac{3}{8}$ " Opening.....18		4056RS	1.99	Short Puller Rod, 12 $\frac{1}{2}$ ".....57		4766PH*	.45	Pin Handle, 4".....33	
3734*	2.89	1" Opening.....18		4056S	2.45	Single Jaw Puller.....57		4767*	1.45	Stub Handle, 4 $\frac{1}{2}$ ".....33	
3736*	3.15	1 $\frac{1}{8}$ " Opening.....18		4057J	2.19	Long Reversible Jaw.....57		4770*	2.39	Universal Joint.....33	
				4058J	1.95	Small Pilot Pulling Jaw.....57		4780*	2.39	Speed Handle, 16".....33	
				4060A	14.51	Light-Duty Puller Set.....58		4785*	1.35	Sliding Bar Handle, 4 $\frac{1}{2}$ ".....33	
								4795	.95	Socket Set Box.....78	

*Packaged in boxes when ordered in multiples of 6.

Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
1/2" Square Drive Sockets, Attachments & Sets (Cont'd.)				Torque-Limiting Wrenches				6910PK* .49 Regular Tapping Screw			
5480*	4.29	Speed Handle, 18"	38	6005	22.95	75 Ft.-Lbs., 3/4" Dr., Plain	67	6910PKM*1.39	Magnetic Tapping Screw		
5485*	2.99	Sliding Bar Hndl., 12 1/2"	38	6006	25.95	75 Ft.-Lbs., 3/4" Dr., Ratch.	67	6910S*	36	Socket, 8-PT., 3/4" Op.	21
5486*	2.99	L-Handle, 13 1/2"	38	6007	22.95	75 Ft.-Lbs., 1/2" Dr., Plain	67	6911H*	36	Socket, 6-PT., 1/2" Op.	21
5494	1.99	Socket Set Box	78	6008	25.95	75 Ft.-Lbs., 1/2" Dr., Ratch.	67	6911PKM*1.39	Magnetic Tapping Screw		
5495	4.25	Socket Set Box	78	6015	27.95	150 Ft.-Lbs., 3/4" Dr., Plain	67	6912H*	36	Socket, 6-PT., 3/4" Op.	21
				6016	29.95	150 Ft.-Lbs., 3/4" Dr., Rch.	67	6912PK*	36	Socket, 6-PT., 3/4" Op.	21
				6017	144.00	500 Ft.-Lbs., 3/4" Dr., Plain	67	6912PKM*1.39	Magnetic Tapping Screw		
3/4" Square Drive Sockets, Attachments & Sets				6065	9.50	750 In.-Lbs., 3/4" Dr., Plain	67	6912S*	36	Socket, 6-PT., 3/4" Op.	21
5500A	161.94	Set in Metal Box	42	6065F	45.00	750 In.-Lbs., 3/4" Dr., Plain	67	6914S*	36	Socket, 8-PT., 3/4" Op.	21
5500NR	59.00	Set in Metal Box	42	6066	27.95	750 In.-Lbs., 3/4" Dr., Rch.	67				
5528	2.09	Socket, 12-PT., 3/4" Op.	41	6066F	47.10	750 In.-Lbs., 3/4" Dr., Rch.	67				
5530	2.09	Socket, 12-PT., 1/2" Op.	41	6067	9.50	750 In.-Lbs., 3/4" Dr., Plain	67				
5532	2.09	Socket, 12-PT., 1/4" Op.	41	6067F	45.00	750 In.-Lbs., 3/4" Dr., Plain	67				
5534	2.09	Socket, 12-PT., 1/8" Op.	41	6068	27.95	750 In.-Lbs., 1/2" Dr., Rch.	67				
5536	2.15	Socket, 12-PT., 1/4" Op.	41	6068F	47.10	750 In.-Lbs., 1/2" Dr., Rch.	67				
5538	2.25	Socket, 12-PT., 1/2" Op.	41	6069	29.95	1600 In.-Lbs., 1/2" Dr., Plain	67				
5540	2.49	Socket, 12-PT., 1 1/2" Op.	41	6069F	48.00	1600 In.-Lbs., 1/2" Dr., Plain	67				
5542	2.75	Socket, 12-PT., 1 1/2" Op.	41	6070	31.95	1600 In.-Lbs., 3/4" Dr., Rch.	67				
5544	2.95	Socket, 12-PT., 1 1/2" Op.	41	6070F	51.00	1600 In.-Lbs., 3/4" Dr., Rch.	67				
5546	3.19	Socket, 12-PT., 1 1/2" Op.	41	6071F	144.00	4800 In.-Lbs., 3/4" Dr., Plain	67				
5548	3.35	Socket, 12-PT., 1 1/2" Op.	41								
5550	3.75	Socket, 12-PT., 1 1/2" Op.	41	Reflex-Type Torque Wrenches							
5552	4.05	Socket, 12-PT., 1 1/2" Op.	41	6025	32.00	Capacity — 25 Foot-Lbs.	66				
5554	4.45	Socket, 12-PT., 1 1/2" Op.	41	6050	32.00	Capacity — 50 Foot-Lbs.	66				
5556	4.45	Socket, 12-PT., 1 1/2" Op.	41								
5558	4.55	Socket, 12-PT., 1 1/2" Op.	41	Torque Driver & Screwdriver Bits							
5560	4.99	Socket, 12-PT., 1 1/2" Op.	41	6080	22.45	80 In.-Oz. Driver & Bit	68				
5564	5.59	Socket, 12-PT., 1 1/2" Op.	41	610*	.60	Bit for 6080, 3/4" Wide	68				
5568	6.69	Socket, 12-PT., 1 1/2" Op.	41	6102*	.60	Bit for 6080, 1 1/4" Phillips	68				
5570	7.09	Socket, 12-PT., 1 1/2" Op.	41								
5572	8.49	Socket, 12-PT., 1 1/2" Op.	41	Torque Wrench Adapters for Cylinder Head Bolts, 1/2" Dr.							
5576	9.99	Socket, 12-PT., 1 1/2" Op.	41	6420	3.39	12-PT., 3/4" Op., Wide Swp.	68				
5647	14.49	Ratcheting Attachment	41	6425	3.05	12-PT., 3/4" Op., Close Swp.	68				
5649	16.85	Reversible Ratchet, 20"	42	6430	3.05	1/2" Male	68				
		(For Spare Parts, See Page 12)		6435	3.39	12-PT., 1/2" Opening	68				
5653	1.65	Adapter, 1/4" F., 3/4" M.	39								
5660	3.25	Extension, 5"	41								
5661	3.99	Extension, 8"	41								
5663	5.59	Extension, 16"	41								
5668	9.95	Hinge Handle, 22"	42								
5668PH	1.09	Pin Handle, 12"	42								
5670	9.15	Universal Joint	41								
5685	6.35	Sliding Bar Handle, 18 1/2"	42								
5686	6.59	L-Handle, 16"	42								
5695	7.29	Socket Set Box	78								
5696	16.29	Socket Set Box	78								
1" Square Drive Sockets, Attachments & Sets											
5700AA	241.06	Set in Metal Box	44								
5700B	411.42	Set in Metal Box	44								
5752	5.25	Socket, 12-PT., 1 1/2" Op.	43								
5758	6.55	Socket, 12-PT., 1 1/2" Op.	43								
5760	7.59	Socket, 12-PT., 1 1/2" Op.	43								
5764	8.25	Socket, 12-PT., 2" Op.	43								
5770	10.85	Socket, 12-PT., 2 1/2" Op.	43								
5772	11.49	Socket, 12-PT., 2 1/2" Op.	43								
5776	13.59	Socket, 12-PT., 2 1/2" Op.	43								
5780	17.59	Socket, 12-PT., 2 1/2" Op.	43								
5782	19.79	Socket, 12-PT., 2 1/2" Op.	43								
5784	21.99	Socket, 12-PT., 2 1/2" Op.	43								
5788	23.55	Socket, 12-PT., 2 1/2" Op.	43								
5794	29.65	Socket, 12-PT., 2 1/2" Op.	43								
5796	32.79	Socket, 12-PT., 3" Op.	43								
5800	36.30	Socket, 12-PT., 3 1/2" Op.	43								
5812	44.05	Socket, 12-PT., 3 1/2" Op.	43								
5848	30.79	Female Rev. Ratch.	26								
5849	32.99	Rev. Ratchet Comp.	26								
		(For Spare Parts, See Page 12)									
5852	4.35	Drive Plug for 5848W	43								
5853	3.75	Adapter, 1/4" F., 1" M.	41								
5854	4.15	Adapter, 1" F., 3/4" M.	44								
5861	8.05	Extension, 8"	44								
5863	9.95	Extension, 17"	44								
5868	32.49	Hinge Handle, 26"	44								
5884	5.39	Bar, 24"	43								
5885	5.19	Drive Plug for 5884	43								
5894	15.85	Socket Set Box	78								
5895	29.25	Socket Set Box	78								

*Packaged in boxes when ordered in multiples of 6.

Item No.	User Net Price	Description	Cat. Page
3/8" Sq. Drive Power Sockets (Continued)			
7219H*	.65	Socket, 6-PT., 1 1/4" Op.....	22
7220H*	.69	Socket, 6-PT., 1 1/2" Op.....	22
7222H*	.79	Socket, 6-PT., 1 3/4" Op.....	22
7224H*	.85	Socket, 6-PT., 1 1/2" Op.....	22
7227H*	3.09	Ball-Type Univ. Joint.....	22
72273*	2.59	Univ. Skt., 6-PT., 3/4" Op.....	22
72274*	2.59	Univ. Skt., 6-PT., 1/2" Op.....	22
72275*	2.59	Univ. Skt., 6-PT., 1/4" Op.....	22
72276*	2.79	Univ. Skt., 6-PT., 1/2" Op.....	22
72277*	2.89	Univ. Skt., 6-PT., 3/4" Op.....	22

(For Spare Parts, See Page 9)

1/2" Square Drive Power Sockets & Sets			
7312H*	1.55	Deep Skt., 6-PT., 3/4" Op.....	23
7314H*	1.59	Deep Skt., 6-PT., 1/2" Op.....	23
7316H*	1.59	Deep Skt., 6-PT., 1/4" Op.....	23
7318H*	1.59	Deep Skt., 6-PT., 1/2" Op.....	23
7320H*	1.59	Deep Skt., 6-PT., 3/4" Op.....	23
7322H*	1.59	Deep Skt., 6-PT., 1/4" Op.....	23
7324H*	1.65	Deep Skt., 6-PT., 1/2" Op.....	23
7326H*	1.75	Deep Skt., 6-PT., 3/4" Op.....	23
7328H*	1.89	Deep Skt., 6-PT., 1/2" Op.....	23
7330H*	2.15	Deep Skt., 6-PT., 3/4" Op.....	23
7332H*	2.19	Deep Skt., 6-PT., 1" Op.....	23
7334H*	2.19	Deep Skt., 6-PT., 1 1/4" Op.....	23
7336H*	2.29	Deep Skt., 6-PT., 1 1/2" Op.....	23
7400A	47.12	Merchdsg. Kit - 44 Items.....	24
7400B	5.32	Set of 6 Power Sockets.....	24
7400C	4.86	Set of 6 Power Sockets.....	24
7400D	5.95	Set 6 Sockets in Tray.....	5832
7400DM	17.85	Mdtr. with 3 7400D.....	5832
7412H*	.79	Socket, 6-PT., 3/4" Op.....	23
7412S*	.89	Socket, 8-PT., 3/4" Op.....	23
7414H*	.79	Socket, 6-PT., 1/2" Op.....	23
7414S*	.89	Socket, 8-PT., 1/2" Op.....	23
7416H*	.79	Socket, 6-PT., 1/4" Op.....	23
7416PK*	1.05	Regular Tapping-Screw	
		Socket, 6-PT., 1/2" Op.....	23
7416S*	.89	Socket, 8-PT., 1/2" Op.....	23
7418H*	.79	Socket, 6-PT., 3/4" Op.....	23
7418PK*	1.15	Regular Tapping-Screw	
		Socket, 6-PT., 1/4" Op.....	23
7418S*	.99	Socket, 8-PT., 3/4" Op.....	23
7419H*	.79	Socket, 6-PT., 1/2" Op.....	23
7420H*	.79	Socket, 6-PT., 1/4" Op.....	23
7420S*	1.05	Socket, 8-PT., 1/4" Op.....	23
7422H*	.85	Socket, 6-PT., 1/2" Op.....	23
7422S*	1.19	Socket, 8-PT., 1/2" Op.....	23
7424H*	.85	Socket, 6-PT., 3/4" Op.....	23
7424S*	1.29	Socket, 8-PT., 3/4" Op.....	23
7426H*	.99	Socket, 6-PT., 1" Op.....	23
7426S*	1.49	Socket, 8-PT., 1" Op.....	23
7428H*	1.05	Socket, 6-PT., 1 1/4" Op.....	23
7428S*	1.49	Socket, 8-PT., 1 1/4" Op.....	23
7430H*	1.25	Socket, 6-PT., 1 1/2" Op.....	23
7430S*	1.65	Socket, 8-PT., 1 1/2" Op.....	23
7432H*	1.29	Socket, 6-PT., 1" Op.....	23
7432S*	1.85	Socket, 8-PT., 1" Op.....	23
7434H*	1.59	Socket, 6-PT., 1 1/4" Op.....	23
7434S*	1.59	Socket, 6-PT., 1 1/2" Op.....	23
7436H*	1.75	Socket, 6-PT., 1 3/4" Op.....	23
7440H*	1.85	Socket, 6-PT., 1" Op.....	23
7470H*	4.05	Ball-Type Univ. Joint.....	23
7474*	3.25	Univ. Skt., 6-PT., 3/4" Op.....	23
7475*	3.25	Univ. Skt., 6-PT., 1/2" Op.....	23
7476*	3.29	Univ. Skt., 6-PT., 1/4" Op.....	23
7477*	3.29	Univ. Skt., 6-PT., 3/4" Op.....	23
7478*	3.35	Univ. Skt., 6-PT., 1" Op.....	23
7479*	4.19	Univ. Skt., 6-PT., 1 1/4" Op.....	23

(For Spare Parts, See Page 9)

5/8" Sq. Drive Power Sockets			
7518H	1.95	Deep Skt., 6-PT., 3/4" Op.....	25
7520H	2.15	Deep Skt., 6-PT., 1/2" Op.....	25
7522H	2.25	Deep Skt., 6-PT., 1/4" Op.....	25
7524H	2.25	Deep Skt., 6-PT., 1/2" Op.....	25
7526H	2.29	Deep Skt., 6-PT., 3/4" Op.....	25
7528H	2.29	Deep Skt., 6-PT., 1" Op.....	25
7530H	2.35	Deep Skt., 6-PT., 1 1/4" Op.....	25

7532H	2.59	Deep Skt., 6-PT., 1 1/2" Op.....	25
7534H	2.95	Deep Skt., 6-PT., 1 3/4" Op.....	25
7536H	2.99	Deep Skt., 6-PT., 1 1/2" Op.....	25
7528H	2.99	Deep Skt., 6-PT., 1 1/4" Op.....	25
7540H	2.99	Deep Skt., 6-PT., 1 1/2" Op.....	25
7542H	3.05	Deep Skt., 6-PT., 1 3/4" Op.....	25
7544H	3.05	Deep Skt., 6-PT., 1 1/2" Op.....	25
7546H	3.09	Deep Skt., 6-PT., 1 3/4" Op.....	25
7548H	3.39	Deep Skt., 6-PT., 1 1/2" Op.....	25
7618H	1.39	Socket, 6-PT., 1/4" Op.....	24
7618S	1.19	Socket, 8-PT., 1/4" Op.....	24
7619H	1.39	Socket, 6-PT., 1/2" Op.....	24
7620H	1.39	Socket, 6-PT., 3/4" Op.....	24
7620S	1.25	Socket, 8-PT., 3/4" Op.....	24
7622H	1.39	Socket, 6-PT., 1/4" Op.....	24
7622S	1.29	Socket, 8-PT., 1/4" Op.....	24
7624H	1.39	Socket, 6-PT., 1/2" Op.....	24
7624S	1.35	Socket, 8-PT., 1/2" Op.....	24
7626H	1.39	Socket, 6-PT., 3/4" Op.....	24
7626S	1.45	Socket, 8-PT., 3/4" Op.....	24
7628S	1.59	Socket, 6-PT., 1" Op.....	24
7628H	1.49	Socket, 6-PT., 1 1/4" Op.....	24
7628S	1.55	Socket, 6-PT., 1 1/2" Op.....	24
7629H	1.49	Socket, 6-PT., 1 1/4" Op.....	24
7630H	1.55	Socket, 6-PT., 1 1/2" Op.....	24
7630S	1.75	Socket, 8-PT., 1 1/2" Op.....	24
7632H	1.59	Socket, 6-PT., 1" Op.....	24
7632S	1.95	Socket, 8-PT., 1" Op.....	24
7634H	1.85	Socket, 6-PT., 1 1/4" Op.....	24
7634S	2.15	Socket, 8-PT., 1 1/4" Op.....	24
7636H	2.05	Socket, 6-PT., 1 1/2" Op.....	24
7636S	2.65	Socket, 8-PT., 1 1/2" Op.....	24
7638H	2.19	Socket, 6-PT., 1 1/4" Op.....	24
7640H	2.29	Socket, 6-PT., 1 1/2" Op.....	24
7642H	2.65	Socket, 6-PT., 1 3/4" Op.....	24
7644H	2.65	Socket, 6-PT., 1 1/2" Op.....	24
7646H	2.99	Socket, 6-PT., 1 3/4" Op.....	24
7648H	3.25	Socket, 6-PT., 1 1/2" Op.....	24
7654	1.65	Adapter, 1/2" F. 3/4" M.....	24
7655	1.85	Adapter, 3/8" F. 1/2" M.....	24
7656	1.95	Adapter, 3/8" F. 3/4" M.....	24
7657	3.25	Adapter, 3/8" F. 5/8" M.....	24
7670	5.25	Ball-Type Univ. Joint.....	25

(For Spare Parts, See Page 9)

3/4" Sq. Drive Power Sockets			
7726SL	1.70	Deep Skt., 4-PT., 1/2" Op.....	25
7748H	5.49	Deep Skt., 6-PT., 1 1/2" Op.....	25
7748HL	8.25	Deep Skt., 6-PT., 1 1/2" Op.....	25
7808H	.80	Socket, 6-PT., 3/4" Op.....	25
7826H	.80	Socket, 6-PT., 1/2" Op.....	25
7826S	1.89	Socket, 4-PT., 1/2" Op.....	25
7828H	1.00	Socket, 6-PT., 3/4" Op.....	25
7831H	.78	Socket, 6-PT., 3/4" Op.....	25
7834H	1.02	Socket, 6-PT., 1 1/4" Op.....	25
7844H	1.62	Socket, 6-PT., 1 3/4" Op.....	25

• 3/4" Sq. Drive Impact Sockets & Extension Bar

0750S	2.09	Socket, 6-PT., 3/4" Op.....	26
0750SL	3.25	Deep Skt., 6-PT., 3/4" Op.....	26
0751S	2.09	Socket, 6-PT., 1/2" Op.....	26
07510L	3.25	Deep Skt., 6-PT., 3/4" Op.....	26
07511	2.09	Socket, 6-PT., 1/4" Op.....	26
07511L	3.25	Deep Skt., 6-PT., 1/4" Op.....	26
07512	2.09	Socket, 6-PT., 3/4" Op.....	26
07512L	3.25	Deep Skt., 6-PT., 3/4" Op.....	26
07513	2.09	Socket, 6-PT., 1/2" Op.....	26
07513L	3.25	Deep Skt., 6-PT., 1/2" Op.....	26
07513SL	5.25	Deep Skt., 4-PT., 1/2" Op.....	26
07513SS	4.15	Socket, 4-PT., 1/2" Op.....	26
07514	2.09	Socket, 6-PT., 1/4" Op.....	26
07514L	3.25	Deep Skt., 6-PT., 1/4" Op.....	26
07515	2.09	Socket, 6-PT., 3/4" Op.....	26
07515L	3.25	Deep Skt., 6-PT., 3/4" Op.....	26
07516	2.09	Socket, 6-PT., 1" Op.....	26
07516L	3.25	Deep Skt., 6-PT., 1" Op.....	26
07517	2.19	Socket, 6-PT., 1 1/4" Op.....	26
07517L	3.55	Deep Skt., 6-PT., 1 1/4" Op.....	26
07518	2.45	Socket, 6-PT., 1 1/2" Op.....	26
07518L	3.55	Deep Skt., 6-PT., 1 1/2" Op.....	26
07519	2.55	Socket, 6-PT., 1 3/4" Op.....	26
07519L	4.25	Deep Skt., 6-PT., 1 3/4" Op.....	26

07520	2.65	Socket, 6-PT., 1 1/4" Op.....	26
07520L	4.25	Deep Skt., 6-PT., 1 1/4" Op.....	26
07521	2.95	Socket, 6-PT., 1 1/2" Op.....	26
07521L	4.75	Deep Skt., 6-PT., 1 1/2" Op.....	26
07522	3.09	Socket, 6-PT., 1 3/4" Op.....	26
07523	3.35	Socket, 6-PT., 1 1/2" Op.....	26
07523L	5.25	Deep Skt., 6-PT., 1 1/2" Op.....	26
07524	3.45	Socket, 6-PT., 1 3/4" Op.....	26
07524L	5.95	Deep Skt., 6-PT., 1 3/4" Op.....	26
07567	5.65	Ext. Bar, 3/4" F. x 3/4" M., 7" L.	26
07655	3.25	Adapter, 3/4" F. 1" M.....	26
07656	4.45	Adapter, 1" F. 3/4" M.....	26

• 1" Drive Impact Sockets & Extension Bar

10012	3.35	Socket, 6-PT., 3/4" Op.....	27
10013SS	3.85	Socket, 4-PT., 3/4" Op.....	27
10014	3.35	Socket, 6-PT., 1/2" Op.....	27
10015	3.35	Socket, 6-PT., 1/4" Op.....	27
10015S	4.95	Deep Skt., 6-PT., 1/4" Op.....	27
10015SL	3.95	Deep Skt., 4-PT., 1/4" Op.....	27
10016	3.35	Socket, 6-PT., 1" Op.....	27
10017	3.35	Socket, 6-PT., 1 1/4" Op.....	27
10017L	4.99	Deep Skt., 6-PT., 1 1/4" Op.....	27
10018	3.35	Socket, 6-PT., 1 1/2" Op.....	27
10018S	3.95	Socket, 8-PT., 1 1/2" Op.....	27
10019	3.35	Socket, 6-PT., 1 3/4" Op.....	27
10020	3.55	Socket, 6-PT., 1 1/2" Op.....	27
10020L	5.65	Deep Skt., 6-PT., 1 1/2" Op.....	27
10020S	4.75	Socket, 8-PT., 1 1/4" Op.....	27
10021	3.65	Socket, 6-PT., 1 3/4" Op.....	27
10021S	4.95	Socket, 8-PT., 1 3/4" Op.....	27
10022	3.65	Socket, 6-PT., 1 1/2" Op.....	27
10023	4.75	Socket, 6-PT., 1 3/4" Op.....	27
10023S	5.55	Socket, 8-PT., 1 3/4" Op.....	27
10024	4.05	Socket, 6-PT., 1 1/2" Op.....	27
10024L	6.45	Deep Skt., 6-PT., 1 1/2" Op.....	27
10025	4.25	Socket, 6-PT., 1 1/4" Op.....	27
10026	4.45	Socket, 6-PT., 1 1/2" Op.....	27
10027	4.75	Socket, 6-PT., 1 3/4" Op.....	27
10028	4.95	Socket, 6-PT., 1 1/2" Op.....	27
10028XL	8.45	Deep Skt., 6-PT., 1 3/4" Op.....	27
10029	5.25	Socket, 6-PT., 1 1/4" Op.....	27
10030	5.35	Socket, 6-PT., 1 1/2" Op.....	27
10031	5.95	Socket, 6-PT., 1 3/4" Op.....	27
10032	6.35	Socket, 6-PT., 2" Op.....	27
10033	6.45	Socket, 6-PT., 2 1/4" Op.....	27
10034	7.45	Socket, 6-PT., 2 1/2" Op.....	27
10035	7.85	Socket, 6-PT., 2 3/4" Op.....	27
10036	8.15	Socket, 6-PT., 2 1/2" Op.....	27
10037	8.35	Socket, 6-PT., 2 3/4" Op.....	27
10038	10.95	Socket, 6-PT., 2 3/4" Op.....	27
10039	11.95	Socket, 6-PT., 2 3/4" Op.....	27
10040	12.65	Socket, 6-PT., 2 3/4" Op.....	27
10041	13.95	Socket, 6-PT., 2 3/4" Op.....	27
10042	14.95	Socket, 6-PT., 2 3/4" Op.....	27
10043	15.75	Socket, 6-PT., 2 3/4" Op.....	27
10044	15.75	Socket, 6-PT., 2 3/4" Op.....	27
10045	15.45	Socket, 6-PT., 2 3/4" Op.....	27
10046	19.25	Socket, 6-PT., 2 3/4" Op.....	27
10047	19.95	Socket, 6-PT., 2 3/4" Op.....	27
10048	19.95	Socket, 6-PT., 3" Op.....	27
10050	21.75	Socket, 6-PT., 3 1/4" Op.....	27
10607	8.75	Ext. Bar, 1" F. x 1" M., 7 1/2" L.	27

• 25 Retainer Pin and "O" Ring
 (Must Be Ordered Separately, Specify Socket or Extension Bar Number To Get Proper Size. Flat Band and Pin Come with Sockets and Extension Bars.)

Offset Box Wrenches

8100B	14.68	Set of 6 Long Wrenches.....	17
8100E	4.74	Set, 4 Midget Wrenches.....	17
8112*	1.15	Midget, 6-PT., $\frac{3}{8}$ " x $\frac{1}{2}$ ".....	17
8117*	1.15	Midget, 6-PT., $\frac{1}{2}$ " x $\frac{3}{4}$ ".....	17
8122*	1.15	Midget, 6-PT., $\frac{1}{2}$ " x $\frac{3}{4}$ ".....	17
8127*	1.29	Midget, 6-PT., $\frac{3}{8}$ " x $\frac{1}{2}$ ".....	17
8160*	1.45	Short, 12-PT., $\frac{3}{8}$ " x $\frac{1}{2}$ ".....	17
8160H*	1.45	Short, 6-PT., $\frac{3}{8}$ " x $\frac{1}{2}$ ".....	17
8161*	1.55	Short, 12-PT., $\frac{1}{2}$ " x $\frac{3}{4}$ ".....	17
8161H*	1.55	Short, 6-PT., $\frac{1}{2}$ " x $\frac{3}{4}$ ".....	17
8162*	1.75	Short, 12-PT., $\frac{3}{4}$ " x $\frac{1}{2}$ ".....	17
8163*	1.95	Short, 12-PT., $\frac{3}{4}$ " x $\frac{1}{2}$ ".....	17

Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
Offset Box Wrenches (Cont'd.)				Plastic-Handle Screwdrivers							
8180*	1.85	Long, 12-Pt., $\frac{3}{8}$ " x $\frac{1}{2}$ "	17	9604*	1.25	8", 4" Rd. Bl., $\frac{1}{2}$ " Bit	46	9904	153.58	Diesel Mtnce. Set, 53 Tools	3
8180H*	1.85	Long, 6-Pt., $\frac{3}{8}$ " x $\frac{1}{2}$ "	17	9606*	1.65	10", 6" Rd. Bl., $\frac{1}{2}$ " Bit	46	9905	165.07	Diesel Maintenance Set, 53 Tools in 9972 Box	3
8181*	2.09	Long, 12-Pt., $\frac{1}{2}$ " x $\frac{1}{2}$ "	17	9608*	2.05	13", 8" Rd. Bl., $\frac{1}{2}$ " Bit	46	9906	208.98	Master Wrench Set, 102 Items	4
8181H*	2.09	Long, 6-Pt., $\frac{1}{2}$ " x $\frac{1}{2}$ "	17	9622*	75	5", 3" Rd. Bl., $\frac{1}{2}$ " Bit	46	9907	277.03	Master Wrench Set, 102 Items in 9997 Chest	5
8182*	2.29	Long, 12-Pt., $\frac{5}{8}$ " x $\frac{1}{2}$ "	17	9623*	79	5", 3" Rd. Bl., $\frac{1}{2}$ " Bit	46	9908	145.74	Mechncs. St. Set, 76 Items	5
8183*	2.45	Long, 12-Pt., $\frac{5}{8}$ " x $\frac{1}{2}$ "	17	9624*	85	6", 4" Rd. Bl., $\frac{1}{2}$ " Bit	46	9909	153.69	Mechanics Standard Set, 76 Items in 9971 Box	5
8184*	2.55	Long, 12-Pt., $\frac{5}{8}$ " x $\frac{1}{2}$ "	17	9625*	89	7", 5" Rd. Bl., $\frac{1}{2}$ " Bit	46	9989C	123.78	Master Tool Set, 58 Items in 9989 Chest	6
8185*	3.45	Long, 12-Pt., $\frac{1}{2}$ " x 1"	17	9626*	95	8", 6" Rd. Bl., $\frac{1}{2}$ " Bit	46				
Hex. Nut Drivers & Sets				9627*	1.09	10", 8" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9200A	8.22	Set of 7 Drivers & Rack	45	9631*	95	6", 3" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9200C	9.23	Set of 7 Drivers & Kit	45	9632*	95	7", 4" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9200E	13.66	Mdsr., 11 Drivers & Rack	45	9633*	1.05	8", 5" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9200F	21.95	Set of 7 Hex. Nut Drivers & 10 Screwdrs. in Kit	45	9634*	1.09	9", 6" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9206*	1.09	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9635*	1.15	11", 8" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9207*	1.09	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9636*	1.29	14", 10" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9208*	1.09	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9642*	1.45	16", 12" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9209*	1.09	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9643*	1.75	14", 10" Rd. Bl., $\frac{1}{2}$ " Bit	46				
9210*	1.09	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9651*	75	2", 1" Sq. Bl., $\frac{1}{2}$ " Bit	47	9931	7.08	5 Open End Wrenches	7
9211*	1.09	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9652*	89	2", 1" Sq. Bl., $\frac{1}{2}$ " Bit	47	9937	9.59	6 Combination Wrenches	7
9212*	1.25	Driver, $\frac{3}{8}$ " Op., 6 $\frac{1}{2}$ " Lg.	45	9671*	1.09	2", 1" Sq. Bl., $\frac{1}{2}$ " Bit	47	9942	11.29	Ad. & 2 Pipe Wrenches	7
9214*	1.29	Driver, $\frac{3}{8}$ " Op., 7 $\frac{1}{2}$ " Lg.	45	9682*	1.29	6", 3" Rd. Phillips #2 Bit	47	9950	16.22	10 Sks. & Hndl., $\frac{1}{2}$ " Dr.	7
9216*	1.29	Driver, $\frac{3}{8}$ " Op., 7 $\frac{1}{2}$ " Lg.	45	9684*	1.45	8", 4" Rd. Phillips #2 Bit	47	9953	8.37	4 Pliers	7
9218*	1.35	Driver, $\frac{3}{8}$ " Op., 7 $\frac{1}{2}$ " Lg.	45	9686*	1.75	10", 8" Rd. Phlps. #3 Bit	47				
9220*	1.55	Driver, $\frac{3}{8}$ " Op., 7 $\frac{1}{2}$ " Lg.	45	9688*	2.15	13", 10" Rd. Phillips #4 Bit	47				
				9693*	1.45	7", Clutch Hd., $\frac{3}{8}$ " Bit	47				
				9694*	1.45	7", Clutch Hd., $\frac{3}{8}$ " Bit	47				
				9695*	1.75	9", Clutch Hd., $\frac{1}{2}$ " Bit	47				
				9696*	2.15	9", Clutch Hd., $\frac{1}{2}$ " Bit	47				
"Ruby Line" Plastic-Handle Rd.-Bl. Screwdrivers & Set				Wood-Handle Screwdrivers							
93000	10.43	Set of 10 Screwdrs. in Kit	45	9701*	1.09	4", $\frac{1}{2}$ " Sq. Bl., $\frac{1}{2}$ " Bit	46				
9302*	.39	Pocket, 2" Blade $\frac{1}{8}$ " Bit	45	9702*	1.09	6", $\frac{1}{2}$ " Sq. Bl., $\frac{1}{2}$ " Bit	46				
9304*	.49	4 $\frac{1}{8}$ " Blade, $\frac{1}{8}$ " Key. Bit	45	9704*	1.29	8", $\frac{1}{2}$ " Sq. Bl., $\frac{1}{2}$ " Bit	46				
9306*	.50	6 $\frac{1}{8}$ " Blade, $\frac{1}{8}$ " Key. Bit	45	9706*	1.85	12", 8" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9308*	.51	8 $\frac{1}{8}$ " Blade, $\frac{1}{8}$ " Key. Bit	45	9708*	2.29	14", 8" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9310*	.63	10 $\frac{1}{8}$ " Blade, $\frac{1}{8}$ " Key. Bit	45	9710*	2.59	16", 10" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9316*	.65	6" Blade, $\frac{1}{8}$ " Key. Bit	45	9712*	2.59	18", 12" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9318*	.66	8" Blade, $\frac{1}{8}$ " Key. Bit	45	9714*	3.19	22", 13" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9321*	.64	1 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Key. Bit	45	9722*	.69	5", $\frac{1}{2}$ " Sq. Bl., $\frac{1}{2}$ " Bit	46				
9322*	.83	2" Blade, $\frac{1}{8}$ " Key. Bit	45	9724*	.79	7", $\frac{1}{2}$ " Sq. Bl., $\frac{1}{2}$ " Bit	46				
9324*	.83	4" Blade, $\frac{1}{8}$ " Key. Bit	45	9732*	.89	8", $\frac{1}{2}$ " Sq. Bl., $\frac{1}{2}$ " Bit	46				
9326*	.85	6" Blade, $\frac{1}{8}$ " Key. Bit	45	9733*	1.05	12", 7", 5" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9328*	.90	8" Blade, $\frac{1}{8}$ " Key. Bit	45	9741*	1.55	13", 9" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9330*	.95	9" Blade, $\frac{1}{8}$ " Key. Bit	45	9742*	1.65	14", 9" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9334*	1.06	4" Blade, $\frac{1}{8}$ " Key. Bit	45	9743*	1.85	16", 10" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9335*	1.08	5" Blade, $\frac{1}{8}$ " Key. Bit	45	9744*	2.15	29", 24" Sq. Bl., $\frac{1}{2}$ " Bit	47				
9336*	1.09	6" Blade, $\frac{1}{8}$ " Key. Bit	45	9752*	1.65	6", 1" Sq. Bl., $\frac{1}{2}$ " Bit	47				
9338*	1.11	8" Blade, $\frac{1}{8}$ " Key. Bit	45	9782*	.89	6", 3" Rd. Phillips #2 Bit	47				
9352*	.40	1" Blade, $\frac{1}{8}$ " Str. Bit	45	9784*	.95	8", 4" Rd. Phillips #2 Bit	47				
9353*	.50	3 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45	9786*	1.15	11", 8" Rd. Phlps. #3 Bit	47				
9354*	.50	4 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45	9788*	1.65	14", 12" Rd. Phlps. #4 Bit	47				
9355*	.51	5 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45								
9356*	.51	6 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45								
9358*	.52	8 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45								
9360*	.56	9 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45								
9362*	.65	1 $\frac{1}{2}$ " Blade, $\frac{1}{8}$ " Str. Bit	45								
9364*	.64	4" Blade, $\frac{1}{8}$ " Str. Bit	45								
9365*	.65	5" Blade, $\frac{1}{8}$ " Str. Bit	45								
9366*	.65	6" Blade, $\frac{1}{8}$ " Str. Bit	45								
9368*	.67	8" Blade, $\frac{1}{8}$ " Str. Bit	45								
9370*	.71	9" Blade, $\frac{1}{8}$ " Str. Bit	45								
9372*	.83	2" Blade, $\frac{1}{8}$ " Str. Bit	45								
9374*	.83	4" Blade, $\frac{1}{8}$ " Str. Bit	45								
9375*	.84	5" Blade, $\frac{1}{8}$ " Str. Bit	45								
9376*	.86	6" Blade, $\frac{1}{8}$ " Str. Bit	45								
9378*	.87	8" Blade, $\frac{1}{8}$ " Str. Bit	45								
9380*	.92	9" Blade, $\frac{1}{8}$ " Str. Bit	45								
9381*	.59	2 $\frac{1}{2}$ " Bl., Phillips #0 Bit	45								
9382*	.85	2 $\frac{1}{2}$ " Bl., Phillips #1 Bit	45								
9384*	1.07	4" Bl., Phillips #2 Bit	45								
Screw & Pipe Extractors				Screw-Holding Screwdrivers							
9500A	6.33	Set of 5 Extractors	73	9851	1.65	Screw Starter, 2 $\frac{1}{2}$ "	5832				
9521*	1.05	$\frac{1}{8}$ " Drill Size	73	9852*	1.19	8 $\frac{1}{8}$ ", 6" Sq. Bl., $\frac{1}{2}$ " Bit	46				
9522*	1.09	$\frac{1}{4}$ " Drill Size	73	9853	1.85	Screw Starter, 5"	5832				
9523*	1.25	$\frac{3}{8}$ " Drill Size	73	9855	1.95	Screw Starter, 9"	5832				
9524*	1.35	$\frac{1}{2}$ " Drill Size	73								
9525*	1.59	$\frac{5}{8}$ " Drill Size	73								
9525B*	2.19	$\frac{1}{2}$ " Drill Size	73								
9526*	2.69	$\frac{3}{4}$ " Drill Size	73								
9527*	2.89	$\frac{7}{8}$ " Drill Size	73								
9528*	3.25	$\frac{1}{2}$ " Drill Size	73								
9529*	4.39	1 $\frac{1}{8}$ " Drill Size	73								
				Tool Sets & Merchandisers							
				9900D	7.33	Kit & 4 Tools	6				
				9900I	50.26	Merchandising Kit with 58 6-Pt. Sockets	39				
				9901	575.59	Maintenance Master Tool Set, 267 Items	2				
				9902	643.64	Mtnce. Master Tool Set, 267 Items in 9997 Chest	3				
				9903	719.71	Mtnce. Master Set, 267 Items in 9968A "Toolmobile"	3				

*Packaged in boxes when ordered in multiples of 6.

Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page	Item No.	User Net Price	Description	Cat. Page
Standard Nupla Hammer Holders, Nuplalex Tips & Handles											
— Continued —											
•P15S	2.65	Tip, Super Soft, 1 1/2" D.....	69	P155	3.40	Holder for 1 1/2" D. Tips.....	69	USN242	23.99	Short, 2 3/4" Opening.....	19
•P1ST	1.65	Tip, Tough, 1 1/2" Diam.....	69	P200	3.90	Holder for 2" Diam. Tips.....	69	USN244	25.15	Short, 2 3/4" Opening.....	19
•P15XH	2.65	Tip, Extra Hard, 1 1/2" D.....	69	P202	8.80	Impax Holder for 2" Tips.....	69	USN247	28.85	Short, 2 3/4" Opening.....	19
•P20H	4.25	Tip, Hard, 2" Diam.....	69	P205	4.30	Holder for 2" Diam. Tips.....	69	USN248	31.45	Short, 3" Opening.....	19
•P20M	2.50	Tip, Medium, 2" Diam.....	69	P250	5.10	Holder for 2 1/2" D. Tips.....	69	USN250	32.29	Short, 3 1/4" Opening.....	19
•P20N	4.25	Tip, Med. Hard, 2" Diam.....	69	P255	5.85	Holder for 2 1/2" D. Tips.....	69	USN254	40.69	Short, 3 3/4" Opening.....	19
•P20S	2.50	Tip, Soft, 2" Diam.....	69	P300	7.60	Holder for 3" Diam. Tips.....	69	USN256	49.29	Short, 3 3/4" Opening.....	19
•P20SS	4.25	Tip, Super Soft, 2" Diam.....	69	P305	11.25	Holder for 3" Diam. Tips.....	69	USN260	50.35	Short, 3 3/4" Opening.....	19
•P20T	2.50	Tip, Tough, 2" Diam.....	69	PH10	.85	Handle for P100 & P105.....	68	USN262	53.99	Short, 3 3/4" Opening.....	19
•P20XH	4.25	Tip, Extra Hard, 2" Diam.....	69	PH15	.90	Handle for P150, P152 & P155.....	68	USN266	60.35	Short, 4 1/4" Opening.....	19
•P25H	6.95	Tip, Hard, 2 1/2" Diam.....	69	PH20	.90	Handle for P200, P202 & P205.....	68	USN272	69.25	Short, 4 1/4" Opening.....	19
•P25M	4.35	Tip, Medium, 2 1/2" Diam.....	69	PH25	1.15	Handle for P250.....	68	USN274	71.35	Short, 4 3/4" Opening.....	19
•P25N	6.95	Tip, Med. Hard, 2 1/2" D.....	69	PH26	1.15	Handle for P255.....	68	USN327	19.75	Long, 1 3/4" Opening.....	19
•P25S	4.35	Tip, Soft, 2 1/2" Diam.....	69	PH30	1.25	Handle for P300 & P305.....	68	USN329	20.85	Long, 1 3/4" Opening.....	19
•P25SS	6.95	Tip, Super Soft, 2 1/2" D.....	69	*Packaged 2 per Box. SD6 Pullermart—See Pullers, Page 4							
•P25T	4.35	Tip, Tough, 2 1/2" Diam.....	69	Slugging 12-Pr. Box Wrenches							
•P25XH	6.95	Tip, Extra Hard, 2 1/2" D.....	69	USN221	10.45	Short, 1 1/4" Opening.....	19	USN330	21.99	Long, 1 3/4" Opening.....	19
•P30H	12.80	Tip, Hard, 3" Diam.....	69	USN223	10.95	Short, 1 1/4" Opening.....	19	USN332	24.09	Long, 2" Opening.....	19
•P30M	6.70	Tip, Medium, 3" Diam.....	69	USN224	11.25	Short, 1 1/2" Opening.....	19	USN335	25.99	Long, 2 1/4" Opening.....	19
•P30N	12.80	Tip, Med. Hard, 3" Diam.....	69	USN226	12.55	Short, 1 1/2" Opening.....	19	USN336	27.25	Long, 2 1/4" Opening.....	19
•P30S	6.70	Tip, Soft, 3" Diam.....	69	USN227	13.59	Short, 1 3/4" Opening.....	19	USN338	33.85	Long, 2 3/4" Opening.....	19
•P30SS	12.80	Tip, Super Soft, 3" Diam.....	69	USN229	14.15	Short, 1 3/4" Opening.....	19	USN341	33.85	Long, 2 3/4" Opening.....	19
•P30T	6.70	Tip, Tough, 3" Diam.....	69	USN230	14.65	Short, 1 3/4" Opening.....	19	USN342	36.19	Long, 2 3/4" Opening.....	19
•P30XH	12.80	Tip, Extra Hard, 3" Diam.....	69	USN232	15.49	Short, 2" Opening.....	19	USN344	37.75	Long, 2 3/4" Opening.....	19
P100	2.20	Holder for 1" Diam. Tips.....	69	USN235	16.75	Short, 2 1/4" Opening.....	19	USN348	42.79	Long, 3" Opening.....	19
P105	2.50	Holder for 1" Diam. Tips.....	69	USN236	17.25	Short, 2 1/4" Opening.....	19	USN350	46.99	Long, 3 1/4" Opening.....	19
P150	2.95	Holder for 1 1/2" D. Tips.....	69	USN238	20.25	Short, 2 3/4" Opening.....	19	USN354	58.75	Long, 3 3/4" Opening.....	19
P152	6.25	Impax Holder for 1 1/2" Tips.....	69	USN241	22.29	Short, 2 3/4" Opening.....	19	USN356	60.35	Long, 3 3/4" Opening.....	19
								USN365	66.65	Long, 4 1/4" Opening.....	19
								USN368	69.25	Long, 4 1/4" Opening.....	19
								USN372	75.85	Long, 4 3/4" Opening.....	19
								USN374	78.19	Long, 4 3/4" Opening.....	19

PROTO-TAC Tools are listed on Pages 10 and 11.

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Spare Parts for Power Items are listed below. All others on Page 12.

For sizes not shown in this Price List or for custom-designed tools for special applications write to the Contract Department. Contract Price List No. 5714 shows special items currently available from stock.

Use This Space for Adding New Items as Announced:

Power Items Parts Price List



Ball-Type Power Universal Socket Parts

Ball-Type Power Universal Joint Parts

Power Extension Socket-Holding Attachment Parts

Socket Drive No.	Socket End Part No.	Drive End Part No.	Pin Part No.	Holding Spring Part No.	Snap Spring Part No.
7273 3/8"	7273A 1.25	7270PF 1.70	7270PN 20	7270SP 10	7270SR 25
7274 3/8"	7274A 1.25	7270PF 1.70	7270PN 20	7270SP 10	7270SR 25
7275 3/8"	7275A 1.25	7270PF 1.70	7270PN 20	7270SP 10	7270SR 25
7276 3/8"	7276A 1.25	7270PF 1.70	7270PN 20	7270SP 10	7270SR 25
7277 3/8"	7277A 1.25	7270PF 1.70	7270PN 20	7270SP 10	7270SR 25
7474 1/2"	7474A 1.50	7470PF 2.25	7470PN 20	7470SP 10	7470SR 25
7475 1/2"	7475A 1.50	7470PF 2.25	7470PN 20	7470SP 10	7470SR 25
7476 1/2"	7476A 1.60	7470PF 2.25	7470PN 20	7470SP 10	7470SR 25
7477 1/2"	7477A 1.60	7470PF 2.25	7470PN 20	7470SP 10	7470SR 25
7478 1/2"	7478A 1.65	7470PF 2.25	7470PN 20	7470SP 10	7470SR 25
7479 1/2"	7479A 2.65	7470PF 2.25	7470PN 20	7470SP 10	7470SR 25

Joint No.	Drive Size	Female End		Male End	
		Part No.	User Price	Part No.	User Price
7270	3/8"	7270PF	1.70	7270PM	1.70
7470	1/2"	7470PF	2.25	7470PM	2.25
7670	3/4"	7670PF	2.95	7670PM	2.95
Joint No.	Drive Size	Pin		Pellet	
		Part No.	User Price	Part No.	User Price
7270	3/8"	7270PN	20	7270PP	15
7470	1/2"	7470PN	20	7470PP	15
7670	3/4"	7670PN	35	7670PP	20
Joint No.	Drive Size	Holding Spring		Snap Ring	
		Part No.	User Price	Part No.	User Price
7270	3/8"	7270SP	10	7270SR	25
7470	1/2"	7470SP	10	7470SR	25
7670	3/4"	7670SP	15	7670SR	25

Fraction in Part No. Indicates Square Drive Size.

Part No.	User Price	Part
7100 1/4" DD	.10	Disc
7100 1/4" P	.20	Pellet
7100 1/4" S	.10	Spring
7100 3/8" DD	.10	Disc
7100 3/8" P	.15	Pellet
7100 3/8" S	.05	Spring
7100 1/2" DD	.10	Disc
7100 1/2" P	.15	Pellet
7100 1/2" S	.05	Spring
7100 3/4" DD	.10	Disc
7100 3/4" P	.15	Pellet
7100 3/4" S	.05	Spring

PROTO-TAC Tools

Item No. is the official catalog number marked on tool and should be used for ordering.

Part No. is the number formerly used in price lists issued by Tubing Application Company, Inc.

Government numbers available upon request.

No Federal excise taxes apply to these tools.

Prices given are recommended net prices to individual users. See PROTO Discount Sheet No.

5606 for recommended discounts to Governmental agencies and industrial organizations.

Prices, design, finish and material analysis are subject to change without notice.

Inquiries are invited on sizes of tools not listed in this price list and on other special tools that use the open end ratcheting principle.

Descriptions and complete specifications of PROTO-TAC Tools are given on Pages 28-32 of Catalogs 5626, 5627, 5628 and 5629.

Item No.	User Net Price	Description	Part No.	Cat. Page	Item No.	User Net Price	Description	Part No.	Cat. Page
TAC Open Socket Type Ratchet Wrenches									
Items for 1/2" O.D. Maximum Tube Size									
500H	5.95	Ratchet Head, 1/2" Drive	500H	28	625X1/4 S5	1.60	Screwdriver, 1/4" Bit	62508XS6	29
4766	2.49	Hinge Handle, 1/2" Drive	0604	33	625X1/4 S8	1.70	Screwdriver, 1/2" Bit	62508XS8	29
4785	1.35	Sliding Bar Handle, 1/2" Drive		33	625X1/4 S10	1.70	Screwdriver, 3/8" Bit	62508XS10	29
500 3/8	1.30	Socket, 6-Pt., 3/8" Opening	16012	28	625X1/4 P1	1.60	Screwdriver, Phillips #1	62508XP1	29
500 1/2	1.35	Socket, 6-Pt., 1/2" Opening	16014	28	625X1/4 P2	1.60	Screwdriver, Phillips #2	62508XP2	29
500 3/4	1.40	Socket, 6-Pt., 3/4" Opening	16016	28	625X1/4 P3	1.70	Screwdriver, Phillips #3	62508XP3	29
500 1	1.45	Socket, 6-Pt., 1" Opening	16018	28	625X1/4 P4	1.70	Screwdriver, Phillips #4	62514XP4	29
500 1 1/2	1.50	Socket, 6-Pt., 1 1/2" Opening	16020	28	625GH	2.50	Rigid Head, 3/4"-1 1/4" Sockets	625GH	29
500 2	1.55	Socket, 6-Pt., 2" Opening	16022	28	625B	1.55	Socket Set Box	625B	29
500 3/4	1.60	Socket, 6-Pt., 3/4" Opening	16024	28	625S	23.25	Set—Ratchet Head 625AC, Hinge Handle 5265 & 6 Sockets, 625 3/4 to 625-1 1/4, in Box 625B	625S	29
500TBA	1.90	Adapter For Turnbuckles, AN155-80 to 461	500TBA	28	Items for 7/8" O.D. Maximum Tube Size				
500X 3/8	1.40	Internal Wrenching Adapter, 3/8" Hexagon	50006X	28	875DF	12.50	Ratchet Head, 3/8" Drive	875H	29
500X 1/2	1.45	Internal Wrenching Adapter, 1/2" Hexagon	50007X	28	5265	3.45	Hinge Handle, 3/8" Drive	0906	35
500X 3/4	1.50	Internal Wrenching Adapter, 3/4" Hexagon	50008X	28	5285	2.15	Sliding Bar Handle, 3/8" Drive		35
500X 1	1.55	Internal Wrenching Adapter, 1" Hexagon	50010X	28	875-1	4.30	Socket, 6-Pt., 1" Opening	28100	29
500X 3/4	1.60	Internal Wrenching Adapter, 3/4" Hexagon	50012X	28	875-1 1/4	4.40	Socket, 6-Pt., 1 1/4" Opening	28102	29
500A 1/4	1.30	Adapter for Standard Sockets, 1/4" Drive	50008A	28	875-1 1/2	4.50	Socket, 6-Pt., 1 1/2" Opening	28104	29
500A 3/8	1.30	Adapter for Standard Sockets, 3/8" Drive	50012A	28	875-1 3/4	4.60	Socket, 6-Pt., 1 3/4" Opening	28106	29
4770	2.39	Universal Joint, 1/2" Drive		33	875-1 1/2	4.70	Socket, 6-Pt., 1 1/2" Opening	28108	29
500X 1/4 S4	1.40	Screwdriver, 1/4" Bit	50008XS4	28	875-1 3/4	4.80	Socket, 6-Pt., 1 3/4" Opening	28110	29
500X 1/4 S5	1.40	Screwdriver, 5/16" Bit	50008XS5	28	875-1 3/4	4.90	Socket, 6-Pt., 1 3/4" Opening	28112	29
500X 1/4 S6	1.40	Screwdriver, 3/8" Bit	50008XS6	28	875-1 3/4	5.00	Socket, 6-Pt., 1 3/4" Opening	28114	29
500X 1/4 S8	1.50	Screwdriver, 1/2" Bit	50008XS8	28	875TBA	2.80	Adapter for Turnbuckles, AN155-80 to 175	875TBA	29
500X 1/4 S10	1.50	Screwdriver, 5/8" Bit	50008XS10	28	875X 1/8	2.00	Internal Wrenching Adapter, 1/8" Hexagon	87518X	29
500X 1/4 S12	1.50	Screwdriver, 3" Bit	50008XS12	28	875X 3/8	2.20	Internal Wrenching Adapter, 3/8" Hexagon	87520X	29
500X 1/2 P1	1.40	Screwdriver, Phillips #1	50008XP1	28	875X 1/2	2.40	Internal Wrenching Adapter, 1/2" Hexagon	87524X	29
500X 1/2 P2	1.40	Screwdriver, Phillips #2	50008XP2	28	875X1	2.60	Internal Wrenching Adapter, 1" Hexagon	87532X	29
500X 1/2 P3	1.50	Screwdriver, Phillips #3	50008XP3	28	875A 1/2	1.80	Adapter for Standard Sockets, 1/2" Drive	87516A	29
500GH	2.30	Rigid Head, 3/4"-3" Sockets	500GH	28	5270	2.65	Universal Joint, 3/8" Drive		36
500B	1.29	Socket Set Box	500B	28	875GH	2.70	Rigid Head, 1 1/4"-1 3/4" Sockets	875GH	29
500S	18.24	Set—Ratchet Head 500H, Hinge Handle 4766 & 6 Sockets, 500 3/8 to 500 3/4, in Box 500B	500	28	875S	4.09	Socket Set Box	875S	29
Items for 3/8" O.D. Maximum Tube Size					Items for 1 1/8" O.D. Maximum Tube Size				
625AC	7.95	Ratchet Head, 3/8" Drive	625H	29	1375GM	16.90	Ratchet Head, 1 1/8" Drive	1375H	30
5265	3.45	Hinge Handle, 3/8" Drive	0906	35	5467	5.85	Hinge Handle, 1 1/8" Drive	1408	38
5285	2.15	Sliding Bar Handle, 3/8" Drive		35	5486	2.99	Ell Handle, 1 1/8" Drive		38
625 3/8	1.60	Socket, 6-Pt., 3/8" Opening	20024	29	1375-1/4	5.40	Socket, 6-Pt., 1 1/4" Opening	112108	30
625 1/2	1.65	Socket, 6-Pt., 1/2" Opening	20026	29	1375-1/2	5.50	Socket, 6-Pt., 1 1/2" Opening	112110	30
625 3/4	1.70	Socket, 6-Pt., 3/4" Opening	20028	29	1375-3/4	5.60	Socket, 6-Pt., 3/4" Opening	112112	30
625 1	1.75	Socket, 6-Pt., 1" Opening	20030	29	1375-1 1/4	5.70	Socket, 6-Pt., 1 1/4" Opening	112114	30
625-1	1.80	Socket, 6-Pt., 1" Opening	20100	29	1375-1 1/2	5.80	Socket, 6-Pt., 1 1/2" Opening	112116	30
625-1 1/4	1.85	Socket, 6-Pt., 1 1/4" Opening	20102	29	1375-1 3/4	5.90	Socket, 6-Pt., 1 3/4" Opening	112118	30
625-1 1/2	2.00	Socket, 6-Pt., 1 1/2" Opening	20104	29	1375-2	6.00	Socket, 6-Pt., 2" Opening	112120	30
625-1 3/4	2.00	Socket, 6-Pt., 1 3/4" Opening	20104	29	1375-2 1/4	6.10	Socket, 6-Pt., 2 1/4" Opening	112122	30
625X 3/8	1.60	Internal Wrenching Adapter, 3/8" Hexagon	62512X	29	1375-2 1/2	6.20	Socket, 6-Pt., 2 1/2" Opening	112124	30
625X 1/2	1.60	Internal Wrenching Adapter, 1/2" Hexagon	62514X	29	1375-2 3/4	6.30	Socket, 6-Pt., 2 3/4" Opening	112126	30
625X 3/4	1.70	Internal Wrenching Adapter, 3/4" Hexagon	62516X	29	1375-3	6.40	Socket, 6-Pt., 3" Opening	112128	30
625X 1	1.80	Internal Wrenching Adapter, 1" Hexagon	62518X	29	1375-3 1/4	6.50	Socket, 6-Pt., 3 1/4" Opening	112130	30
625X 3/8	1.90	Internal Wrenching Adapter, 3/8" Hexagon	62520X	29	1375-3 1/2	6.60	Socket, 6-Pt., 3 1/2" Opening	112200	30
625A 3/8	1.45	Adapter, Standard Sockets, 3/8" Dr.	62512A	29	1375-3 3/4	6.80	Socket, 6-Pt., 3 3/4" Opening	112204	30
625A 1/2	1.70	Adapter, Standard Sockets, 1/2" Dr.	62516A	29	5470	3.19	Universal Joint, 1 1/8" Drive		39
5270	2.65	Universal Joint, 3/8" Drive		36	1375S	8.50	Socket Set Box	1375S	30
625X 1/4 S4	1.60	Screwdriver, 1/4" Bit	62508XS4	29	1375S	116.05	Set—Ratchet Head 1375GM, Hinge Handle 5467 & 14 Sockets, 1375-1/4 to 1375-2 3/4, in Box 1375B		30
625X 1/4 S5	1.60	Screwdriver, 5/16" Bit	62508XS5	29					

PROTO-TAC Tools

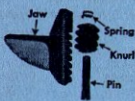
Item No.	User Net Price	Description	Part No.	Cat. Page	Item No.	User Net Price	Description	Part No.	Cat. Page
TAC Open Type—Continued					$\frac{1}{2}$"-$1\frac{1}{16}$" Range — Ratchet Head				
Items for $2\frac{1}{16}$" O.D. Max. Tube Size					Holds Sockets with $\frac{1}{16}$" Top Diam.				
2062NT	28.95	Ratchet Head, $\frac{1}{2}$ " Drive	2062H	30	625ACCL	5.90	Ratchet Head, $\frac{3}{4}$ " Drive	625HCL	31
5467	5.85	Hinge Handle, $\frac{1}{2}$ " Drive	1408	38	625 $\frac{1}{2}$ CL	1.00	Socket, 6-PT, $\frac{1}{2}$ " Opening	20016CL	31
5486	2.99	Ell Handle, $\frac{1}{2}$ " Drive		38	625 $\frac{3}{4}$ CL	1.00	Socket, 6-PT, $\frac{3}{4}$ " Opening	20018CL	31
2062- $\frac{1}{4}$	10.45	Socket, 6-PT, $2\frac{1}{4}$ " Opening	202202	30	625 $\frac{1}{2}$ CL	1.00	Socket, 6-PT, $\frac{1}{2}$ " Opening	20020CL	31
2062- $\frac{1}{2}$	10.95	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202204	30	625 $\frac{3}{4}$ CL	1.00	Socket, 6-PT, $\frac{3}{4}$ " Opening	20022CL	31
2062- $\frac{3}{4}$	11.45	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202206	30	625 $\frac{1}{2}$ CL	1.00	Socket, 6-PT, $\frac{1}{2}$ " Opening	20024CL	31
2062- $\frac{1}{2}$	11.95	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202208	30	625 $\frac{3}{4}$ CL	1.00	Socket, 6-PT, $\frac{3}{4}$ " Opening	20026CL	31
2062- $\frac{3}{4}$	12.45	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202210	30	625 $\frac{1}{2}$ CL	1.00	Socket, 6-PT, $\frac{1}{2}$ " Opening	20028CL	31
2062- $\frac{1}{2}$	12.95	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202212	30	625 $\frac{3}{4}$ CL	1.00	Socket, 6-PT, $\frac{3}{4}$ " Opening	20030CL	31
2062- $\frac{3}{4}$	13.45	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202214	30	625-1CL	1.00	Socket, 6-PT, 1" Opening	20100CL	31
2062- $\frac{1}{2}$	13.95	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202216	30	625- $\frac{1}{4}$ CL	1.00	Socket, 6-PT, $1\frac{1}{4}$ " Opening	20102CL	31
2062- $\frac{3}{4}$	14.50	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202218	30	625CS	16.85	Set—Ratchet Head 625-ACCL, Hinge Handle 5265 & 6 Sockets, 625 $\frac{1}{2}$ CL to 625- $1\frac{1}{4}$ CL, in Box 6258	625CL	31
2062- $\frac{1}{2}$	14.95	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202220	30					
2062- $\frac{3}{4}$	15.50	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202222	30					
2062- $\frac{1}{2}$	16.50	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202224	30					
2062- $\frac{3}{4}$	17.50	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202226	30					
2062- $\frac{1}{2}$	18.50	Socket, 6-PT, $2\frac{1}{2}$ " Opening	202228	30					
2062- $\frac{3}{4}$	19.50	Socket, 6-PT, $2\frac{3}{4}$ " Opening	202230	30					
2062- $\frac{1}{2}$	20.50	Socket, 6-PT, 3" Opening	202300	30					
2062- $\frac{3}{4}$	22.50	Socket, 6-PT, $3\frac{1}{2}$ " Opening	202302	30	9006	6.30	$\frac{1}{4}$ " Drive, 6-PT, $\frac{3}{8}$ " Opening	9006H	31
2062- $\frac{1}{2}$	24.95	Socket, 6-PT, $3\frac{1}{2}$ " Opening	202304	30	9007	7.00	$\frac{1}{4}$ " Drive, 6-PT, $\frac{1}{2}$ " Opening	9007H	31
5470	3.19	Universal Joint, $\frac{1}{2}$ " Drive		39	9008	7.70	$\frac{1}{4}$ " Drive, 6-PT, $\frac{3}{4}$ " Opening	9008H	31
2062B	9.95	Socket Set Box	2062B	30	9009	8.40	$\frac{1}{4}$ " Drive, 6-PT, 1" Opening	9009H	31
2062S	327.25	Set—Ratchet Head 2062NT, Hinge Handle 5467 & 18 Sockets, 2062- $\frac{1}{4}$ to 2062- $\frac{3}{4}$ in Box 2062B	2062	30	9010	9.10	$\frac{1}{4}$ " Drive, 6-PT, $1\frac{1}{8}$ " Opening	9010H	31
					9011	9.80	$\frac{1}{4}$ " Drive, 6-PT, $1\frac{1}{4}$ " Opening	9011H	31
					9012	10.50	$\frac{3}{8}$ " Drive, 6-PT, $\frac{3}{8}$ " Opening	9012H	31
					9013	11.20	$\frac{3}{8}$ " Drive, 6-PT, $\frac{1}{2}$ " Opening	9013H	31
					9014	11.80	$\frac{3}{8}$ " Drive, 6-PT, $\frac{3}{4}$ " Opening	9014H	31
					9015	12.40	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{1}{8}$ " Opening	9015H	31
					9016	12.90	$\frac{3}{8}$ " Drive, 6-PT, 1" Opening	9016H	31
					9017	13.40	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{1}{4}$ " Opening	9017H	31
					9018	13.90	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{3}{8}$ " Opening	9018H	31
					9019	14.90	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{1}{2}$ " Opening	9019H	31
					9020	16.90	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{3}{4}$ " Opening	9020H	31
					9021	18.90	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{7}{8}$ " Opening	9021H	31
					9022	20.90	$\frac{3}{8}$ " Drive, 6-PT, 2" Opening	9022H	31
					9023	22.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{8}$ " Opening	9023H	31
					9024	24.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{4}$ " Opening	9024H	31
					9025	25.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{8}$ " Opening	9025H	31
					9026	26.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{2}$ " Opening	9026H	31
					9027	27.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{4}$ " Opening	9027H	31
					9028	28.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{7}{8}$ " Opening	9028H	31
					9029	29.90	$\frac{3}{8}$ " Drive, 6-PT, $3\frac{1}{8}$ " Opening	9029H	31
					9030	30.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{2}$ " Opening	9030H	31
					9031	31.90	$\frac{3}{8}$ " Drive, 6-PT, $1\frac{1}{2}$ " Opening	9031H	31
					9032	32.90	$\frac{3}{8}$ " Drive, 6-PT, 2" Opening	9032H	31
					9033	33.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{4}$ " Opening	9033H	31
					9034	34.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{8}$ " Opening	9034H	31
					9035	35.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{2}$ " Opening	9035H	31
					9036	36.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{4}$ " Opening	9036H	31
					9037	37.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{7}{8}$ " Opening	9037H	31
					9038	38.90	$\frac{3}{8}$ " Drive, 6-PT, $3\frac{1}{8}$ " Opening	9038H	31
					9039	39.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{2}$ " Opening	9039H	31
					9040	40.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{4}$ " Opening	9040H	31
					9041	41.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{7}{8}$ " Opening	9041H	31
					9042A	42.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{8}$ " Opening	9042AH	31
					9043	43.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{2}$ " Opening	9043H	31
					9044	44.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{4}$ " Opening	9044H	31
					9045	45.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{7}{8}$ " Opening	9045H	31
					9046	46.90	$\frac{3}{8}$ " Drive, 6-PT, $3\frac{1}{8}$ " Opening	9046AH	31
					9046A	46.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{3}{4}$ " Opening	9046AH	31
					9047	47.90	$\frac{3}{8}$ " Drive, 6-PT, $2\frac{1}{2}$ " Opening	9047H	31
					9048	48.90	$\frac{3}{8}$ " Drive, 6-PT, 3" Opening	9048H	31
TAC Closed Socket Type Ratchet Wrenches					TAC "Hy-Tork" Ratcheting Box Wrenches				
500CL	4.50	Ratchet Head, $\frac{1}{4}$ " Drive	500HCL	31	106 $\frac{1}{2}$	8.07	$\frac{3}{4}$ " Drive, 12-PT, $\frac{3}{4}$ " Opening	8106	32
502	4.50	Ratchet Head, Stamped, $\frac{3}{8}$ " Drive	502HCL	31	108 $\frac{1}{2}$	8.34	$\frac{1}{2}$ " Drive, 12-PT, $\frac{1}{2}$ " Opening	8108	32
500 $\frac{1}{2}$ CL	.70	Socket, 6-PT, $\frac{1}{2}$ " Opening	16012CL	31					
500 $\frac{1}{4}$ CL	.70	Socket, 6-PT, $\frac{1}{4}$ " Opening	16014CL	31					
500 $\frac{1}{2}$ CL	.70	Socket, 6-PT, $\frac{1}{2}$ " Opening	16016CL	31					
500 $\frac{1}{4}$ CL	.70	Socket, 6-PT, $\frac{1}{4}$ " Opening	16018CL	31					
500 $\frac{1}{2}$ CL	.70	Socket, 6-PT, $\frac{1}{2}$ " Opening	16020CL	31					
500 $\frac{1}{4}$ CL	.70	Socket, 6-PT, $\frac{1}{4}$ " Opening	16022CL	31					
500CS	12.44	Set—Ratchet Head 500CL, Hinge Handle 4766 & 6 Sockets, 500 $\frac{1}{2}$ CL to 500 $\frac{1}{4}$ CL, in Box 500B	500CL	31					

Parts Price List

Plier Parts

Plier No.	Bolt & Nut No.	User Price	Plier No.	Bolt & Nut No.	User Price	Plier No.	Bolt & Nut No.	User Price	Plier No.	Bolt & Nut No.	User Price	Plier No.	Spring No.	User Price
201	275B .10	234 234P .15	239	202B .10	240 240B .15	243	243B .20	257 257B .10	205 Series	205SP .20				
202	202B .10	235 235B .20	240	240B .15	245 245B .95	275	275B .10	224 224SP .20	211S	211SP .20				
203	202B .10	236 202B .10	241	241B .15	246 246B .15	276	202B .10	224 224SP .20	224	224SP .20				
230	235B .20	238 257B .10	242	243B .20	248 248B .20	278	202B .10	250 250SP .20	251	251SP .20				
					252 252B .15			282BS thru 287BS	282SP .20					

Adjustable Wrench Parts



No. 700A: Kit of 72
Adj. Wr. Parts \$21.87

Polished Jaw			Plated Jaw			Plated Knurl			Threaded Pin			Cyl. Spring			See Note # Tapered Pin & Hour-Glass Spg		
Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price
704	704P	.42	704P	704P	.42	704KP	704KP	.17	704N	704N	.10	704R	704R	.04	704NRH	704NRH	.10
704L	704L	.35	704L	704L	.35	704KPL	704KPL	.17	704N	704N	.10	704R	704R	.04	704NRH	704NRH	.10
706	706	.50	706P	706P	.50	706KPL	706KPL	.18	706N	706N	.08	706R	706R	.04	706NRH	706NRH	.10
706L	706L	.50	706P	706P	.50	706KPL	706KPL	.18	706N	706N	.08	706R	706R	.04	706NRH	706NRH	.10
706S	706S	.45	706P	706P	.50	706KPL	706KPL	.18	706N	706N	.08	706R	706R	.04	706NRH	706NRH	.10
708	708	.59	708P	708P	.59	708KPL	708KPL	.20	708N	708N	.09	708R	708R	.04	708NRH	708NRH	.12
708L	708L	.59	708P	708P	.59	708KPL	708KPL	.20	708N	708N	.09	708R	708R	.04	708NRH	708NRH	.12
708S	708S	.54	708P	708P	.59	708KPL	708KPL	.20	708N	708N	.09	708R	708R	.04	708NRH	708NRH	.12
710	710	.70	710P	710P	.70	710KP	710KP	.23	710N	710N	.11	710R	710R	.04	710NRH	710NRH	.13
710L	710L	.70	710P	710P	.70	710KP	710KP	.23	710N	710N	.11	710R	710R	.04	710NRH	710NRH	.13
710S	710S	.65	710P	710P	.70	710KP	710KP	.23	710N	710N	.11	710R	710R	.04	710NRH	710NRH	.13
712	712	.90	712P	712P	.90	712KP	712KP	.28	712N	712N	.13	712R	712R	.04	712NRH	712NRH	.17
712L	712L	.90	712P	712P	.90	712KP	712KP	.28	712N	712N	.13	712R	712R	.04	712NRH	712NRH	.17
712S	712S	.85	712P	712P	.90	712KP	712KP	.28	712N	712N	.13	712R	712R	.04	712NRH	712NRH	.17
716	716	2.30	716P	716P	2.30	716KP	716KP	.75	716N	716N	.23	716R	716R	.04	716NRH	716NRH	.28
716L	716L	2.30	716P	716P	2.30	716KP	716KP	.75	716N	716N	.23	716R	716R	.04	716NRH	716NRH	.28
716S	716S	1.90	716P	716P	2.30	716KP	716KP	.75	716N	716N	.23	716R	716R	.04	716NRH	716NRH	.28
720	720	3.10	720P	720P	3.10	720KP	720KP	1.25	720N	720N	.28	720R	720R	.04	720NRH	720NRH	.30
720L	720L	3.10	720P	720P	3.10	720KP	720KP	1.25	720N	720N	.28	720R	720R	.04	720NRH	720NRH	.30
720S	720S	2.55	720P	720P	3.10	720KP	720KP	1.25	720N	720N	.28	720R	720R	.04	720NRH	720NRH	.30

†For wrenches with pin hole drilled completely through head.

Normal-Duty Pipe Wrench Parts

Handle & Spring			Handle & Springs			Jaw			Knurl			Pin for Frame			Frame & Pin			Springs & Rivet for Back			Spring & Rivet for Front		
Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price
806	806H	1.20	806H	806H	1.20	806J	806J	.55	806K	806K	.20	806P	806P	.05	806PF	806PF	.60	806SF	806SF	.10	806SF	806SF	.10
808	808H	1.35	808H	808H	1.35	808J	808J	.65	808K	808K	.25	808P	808P	.05	808PF	808PF	.75	808SF	808SF	.10	808SF	808SF	.10
810	810H	1.70	810H	810H	1.70	810J	810J	1.00	810K	810K	.45	810P	810P	.05	810PF	810PF	.80	810SF	810SF	.15	810SF	810SF	.15
814	814H	2.25	814H	814H	2.25	814J	814J	1.40	814K	814K	.55	814P	814P	.05	814PF	814PF	1.00	814SF	814SF	.15	814SF	814SF	.15
818	818H	3.25	818H	818H	3.25	818J	818J	1.85	818K	818K	.75	818P	818P	.10	818PF	818PF	1.50	818SF	818SF	.15	818SF	818SF	.15
824	824H	6.50	824H	824H	6.50	824J	824J	3.25	824K	824K	1.00	824P	824P	.10	824PF	824PF	2.50	824SF	824SF	.20	824SF	824SF	.10

Heavy-Duty Pipe Wrench Parts

Handle, Heel Jaw & Pin Assembly			Hook Jaw			Heel Jaw & Pin			Knurl			Flat Spring			Coil Spring		
Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price	Wrench No.	Part No.	User Price
806HD	806A	2.05	806H	806H	.75	806C	806C	.50	806D	806D	.20	806E	806E	.25	806G	806G	.10
808HD	808A	2.45	808H	808H	.90	808C	808C	.55	808D	808D	.20	808E	808E	.25	808G	808G	.10
810HD	810A	3.35	810H	810H	1.35	810C	810C	.70	810D	810D	.25	810E	810E	.25	810G	810G	.10
814HD	814A	4.75	814H	814H	1.75	814C	814C	.75	814D	814D	.35	814E	814E	.35	814G	814G	.10
818HD	818A	6.50	818H	818H	2.60	818C	818C	.90	818D	818D	.50	818E	818E	.50	818G	818G	.10
824HD	824A	10.00	824H	824H	4.25	824C	824C	1.00	824D	824D	.75	824E	824E	.65	824G	824G	.10

Reversible Ratchet Parts

Wheel & Plug			Cover			Dog, Left			Dog, Right			Cover Screw			Revsrg. Assy.			Spring			Wheel w/Plug		
Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price
5449	5449	.20	5449L	5449L	.25	5449R	5449R	.25	5449H	5449H	.05	5449S	5449S	.40	5449T	5449T	.05	5449U	5449U	.05	5449V	5449V	.75
5449	5449	.30	5449L	5449L	.35	5449R	5449R	.35	5449H	5449H	.05	5449S	5449S	.45	5449T	5449T	.05	5449U	5449U	.05	5449V	5449V	.90
5449	5449	.50	5449L	5449L	.55	5449R	5449R	.55	5449H	5449H	.05	5449S	5449S	.55	5449T	5449T	.05	5449U	5449U	.05	5449V	5449V	1.40
5449	5449	1.50	5449L	5449L	1.10	5449R	5449R	1.10	5449H	5449H	.05	5449S	5449S	.93	5449T	5449T	.05	5449U	5449U	.05	5449V	5449V	3.40
5848	5848	3.20	5848L	5848L	1.70	5848R	5848R	1.70	5848H	5848H	.15	5848S	5848S	1.90	5848T	5848T	.15	5848U	5848U	.15	5848V	5848V	*
5849	5849	3.20	5849L	5849L	1.70	5849R	5849R	1.70	5849H	5849H	.15	5849S	5849S	1.90	5849T	5849T	.15	5849U	5849U	.15	5849V	5849V	*

*Ratchet No. 5848 Has No. 5848W Female Wheel (User Net Price—4.75). Ratchet No. 5849 Has No. 5848W Female Wheel (User Net Price—4.75) and No. 5852 Male Plug (User Net Price—4.40).

Cover Clip			Dog			Dog Ball			Dog Pin			Dog Pin Ring			Plug			Retain. Ring			Spring			Female Whl.		
Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price	Ratchet No.	Drive No.	User Price
4750	4750	.20	4750D	4750D	.65	4750DB	4750DB	.04	4750DP	4750DP	.08	4750DPR	4750DPR	.04	4750G	4750G	.50	4750RR	4750RR	.05	4750S	4750S	.04	4750W	4750W	.50